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PERSONAL.

Mr. James J. Sheehan has been elected City Engineer of Everett, Wash.

Mr. J. A. McDuffie has been appointed General Manager of the Brunswick & Birmingham Ry. of Georgia.

Mr. C. B. Gifford, Master Mechanic of the Louisville & Nashville Ry., at Birmingham, Ala., has resigned.

Mr. Henderson W. Knott, Chief Engineer of the Imperial Electrical Supplies, Ltd., of London, is visiting this country.

Mr. Eugene E. Hawkins has been appointed Superintendent of the Sea View Electric R. R., of Warwick, R. I.

Mr. Herman Herring, Civil Engineer, has accepted a position with the Receivers of the mining concern at Ottumwa, Ill.

Mr. John W. Ellis, M. Am. Soc. C. E., has been elected President and Manager of the Providence Gas Co., of Providence, R. I.

Mr. Julius F. Frehsee, of the firm of Frehsee & Olmstead, of Lockport, N. Y., has been appointed City Engineer of that city.

Mr. W. Scott Matlack, of Mount Holly, Pa., has been appointed Superintendent of the water and sewerage systems of Freehold, Pa.

Mr. W. E. Mott of the College of Civil Engineering at Cornell University, Ithaca, N. Y., has been promoted to an Assistant Professor.

Mr. Lott D. Norton has been appointed Chief Engineer of the Harbor Commission of California, succeeding Mr. Howard C. Holmes, resigned.

Mr. S. Whinery, C. E., M. Am. Soc. C. E., has opened an office at 95 Liberty St., New York city, where he will carry on a consulting practice.

Mr. E. A. Geiger has been appointed Superintendent of the Brockville, Westport & Sault Ste. Marie Ry., with headquarters at Brockville, Ont.

Mr. G. A. Whitehead has been appointed Resident Engineer of the Nashville, Florence & Northern R. R., with headquarters at Nashville, Tenn.

Mr. Walter Kennedy, Mechanical Engineer, 631 Penn Ave., Pittsburg, will remove his offices on April 1 to the Bijou Building, 611 Penn Ave., Pittsburg.

Mr. J. W. Peterson, of Chicago, has joined the staff of the Northern Electrical Mfg. Co. and the Stanley Electrical Mfg. Co., with headquarters in Chicago.

Mr. James C. Stewart, of the firm of James Stewart & Co., grain elevator builders and contractors of St. Louis, Mo., has returned to that city from London.

Mr. R. S. Logan, Assistant to the General Manager of the Grand Trunk Ry., has been appointed Vice-President and General Manager of the Central Vermont Ry.

Mr. A. Clark, Superintendent of the San Luis Division of the Mexican National R. R., has been transferred to the Southern Division, with headquarters at the city of Mexico, Mexico.

Mr. Sturges G. Bates, General Freight Agent of the Eastern Kentucky Ry., has been elected Vice-President and General Manager of that road, to succeed Mr. H. W. Bates, deceased.

Mr. B. R. Stephen has been appointed Acting General Superintendent of the Toledo, St. Louis & Western R. R., with headquarters at Frankfort, Ind., succeeding Mr. C. F. Franklin, resigned.

Naval Constructor H. S. Smith, Acting Chief of the Department of Construction and Repairs at the Brooklyn Navy Yard, has been ordered to Washington, D. C., as First Assistant to Rear-Admiral Bowles.

Mr. C. J. Langston has been appointed Master Mechanic of the St. Louis Southwestern Ry., with headquarters at Tyler, Tex., and Mr. F. W. Lander, Assistant Master Mechanic, with headquarters at Pine Bluff, Ark.

Mr. Chester P. Wilson, formerly Chief Engineer of the Milwaukee Electric Ry. & Light Co., has been appointed General Manager of the Camps Bay, Cape Town & Seapoint Tramway Co., of Cape Town, South Africa.

Mr. Henry H. Shepard, Superintendent of the Unadilla Valley Ry., has resigned to become Superintendent of the Bangor & Portland Division of the Delaware, Lackawanna & Western R. R., with headquarters at Bangor, Pa.

Mr. R. B. Seymour, Chief Engineer of the Richmond, Petersburg & Carolina Division of the Seaboard Air Line Ry., has been appointed Chief Engineer of the Chesapeake & Western R. R., with headquarters at Harrisonburg, Va.

Mr. James W. Way, M. Am. Soc. C. E., Chief Engineer of the Missouri Pacific Ry. and St. Louis, Iron Mountain & Southern Ry. and leased lines, has been appointed Consulting Engineer of these companies, with headquarters at St. Louis, Mo.

Dr. M. J. Pupin has been elected to the newly created chair of Professor of Electro-Mechanics of Columbia University, New York city. Prof. Pupin will represent the University at the Ninth Jubilee of the Glasgow University, to be held in June.

Mr. Charles F. Loweth, M. Am. Soc. C. E., of St. Paul, Minn., has been appointed Engineer and Superintendent of Bridges and Buildings of the Chicago, Milwaukee & St. Paul Ry., with offices at Chicago, Ill. He succeeds Mr. Onward Bates, M. Am. Soc. C. E., who has resigned to enter private business.

Mr. E. H. Fitzhugh, Vice-President and General Manager of the Central Vermont Ry., has resigned, and is succeeded by Mr. R. S. Logan, formerly Assistant to Mr. Geo. B. Reeve, Second Vice-President and General Manager of the Grand Trunk Ry. System, whose headquarters will be at St. Albans, Vt.

Mr. W. A. Rogers, Engineer of Permanent Construction of Bridges and Buildings on the Chicago, Milwaukee & St. Paul Ry., has resigned that position to associate himself with Mr. Onward Bates, M. Am. Soc. C. E., under the firm name of Bates & Rogers, Engineers and Contractors, with offices in the Manhattan Building, Chicago.

Mr. Calvert Townley, Manager of the Boston office of the Westinghouse Electric & Manufacturing Co., has been appointed General Agent of that company, with headquarters in New York city, and is succeeded by Mr. R. L. Warner, heretofore in charge of the engineering and commercial work for the company in Southern New England.

Mr. H. M. Taylor has been appointed Superintendent of the San Luis Division of the Mexican National R. R., with headquarters at San Luis Potosi, Mexico. He was formerly connected with the Engineering Department of the Louisville & Nashville R. R., at Birmingham, Ala., and was Resident Engineer on the construction of the Coosa River bridge on that road.

Mr. Wm. J. Barrett, of Los Angeles, Cal., who has been the Representative of the interests of the John A. Roebling's Sons Co. in Southern California, has resigned that position to take charge of the business of the Westinghouse Electric & Manufacturing Co. in that territory. Mr. Ira Francis, City Electrician of Los Angeles, has resigned to succeed Mr. Barrett in his former position.

Mr. H. Rohwer, Assistant Engineer of the Missouri Pacific Ry. at Sedalia, Mo., has been appointed Chief Engineer of that system, with headquarters at St. Louis, Mo., succeeding Mr. James W. Way, appointed Consulting Engineer. Mr. Rohwer has been engaged in Civil Engineering in this country since 1869. He has been engaged at different times with the Burlington & Missouri River R. R., the Omaha & Western R. R., the Oregon Short Line, the Omaha Belt Ry. and with the Missouri Pacific Ry. From 1877 to 1881 he was City Engineer of Omaha, Neb.

Mr. Onward Bates, M. Am. Soc. C. E., whose resignation as Engineer and Superintendent of Bridges and Buildings on the Chicago, Milwaukee & St. Paul Ry., to engage in private practice, was noted last week, has held the position above-named with the Chicago, Milwaukee & St. Paul Ry. for over 13 years. He has had entire charge of the design, construction and maintenance of bridges, culverts, buildings, water supply, etc., on the system of over 6,000 miles, and during this period he has built more than 11 miles of iron and steel bridges and the culverts which made it possible to replace 44 miles of wooden bridges with earth embankments. It has been the policy of the railway to do all work with its own employees, and Mr. Bates has been at the head of a working organization with a monthly payroll at times exceeding $100,000.

OBITUARY.

Mr. Thomes Bradley, contractor of Corning, N. Y., died on March 9, aged 51 years.

Mr. John F. Wannemaker, Civil Engineer, of Paonia, Colo., died on Feb. 24, of typhoid fever.

Mr. Gilbert Wilkes, head of a firm of Electrical and Mechanical Engineers, of Denver, Colo., died in that city on March 11.

Mr. John Appleton, a retired Engineer and Contractor, of Kalamazoo, Mich., died on March 3 in that city. He was born in Leeds, England, in 1821, and came to America in the spring of 1857.

Mr. Charles King, Civil and Mining Engineer, Alaskan Agent of the Northern Pacific R. R., with headquarters at Tacoma, Wash., died in that city on Jan. 9. Mr. King was born at Elizabethtown, N. J., in 1854, and was graduated from the Columbia College School of Mines in 1876.

Mr. Edward Hale Kendall, Architect, died at his home in New York city on March 10, of pneumonia. Mr. Kendall was born in Boston, Mass., in 1842, and was educated at the Boston Latin School, afterward studying architecture in Paris. After completing his studies he returned to New York city, where he practiced his profession.

ENGINEERING SOCIETIES.

COMING MEETINGS.

ENGINEERS' CLUB OF COLUMBUS:
March 16. Paper: "Heating and Ventilation," by J. N. Bradford. Secy., H. M. Gates, 12½ North High St., Columbus, O.

ENGINEERS' CLUB OF PHILADELPHIA.
March 16. Paper: "The Queen Lane Division of the Water-Works of Philadelphia," by J. C. Trautwine, Jr. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
March 18. Paper: "Rail and Bridge Destruction," by Gen. Basil W. Duke; and "A Polluted Water Course," by Dr. Chas. Palmer. Secy., Marshall Morris, Louisville, Ky.

AMERICAN RAILWAY ASSOCIATION.
April 24. Annual meeting in New York city. Secy., W. F. Allen, 24 Park Place, New York city.

NATIONAL ELECTRIC LIGHT ASSOCIATION.
May 21 to 23. Annual meeting at Niagara Falls, N. Y. Secy., Geo. F. Porter, 120 Liberty St., New York city.

AMERICAN FOUNDRYMEN'S ASSOCIATION.
June 4 to 6. Annual meeting at Buffalo, N. Y. Secy., Richard Moldenke, Box 432, New York city.

AMERICAN WATER-WORKS ASSOCIATION.
June 17. Annual meeting in New York city. Secy., Peter Milne, 95 William St., New York city.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.—At the meeting, held on March 5, it was decided to establish a bureau of information and a post-office at the Pan-American Exposition for the convenience of visiting engineers.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—At the meeting on March 6, Mr. Theo. Horton, Assoc. M. Am. Soc. C. E., read a paper on "Flow in the Sewers of the North Metropolitan Sewerage System of Massachusetts." A brief abstract of the paper and discussion is given elsewhere in this issue.

ENGINEERS' CLUB OF ST. LOUIS.—At the meeting of March 6 an address on "The Development of the Steam Engine" was given by Prof. J. H. Kinealy. At the next meeting a paper on "Bank Revetment Work at the Chain of Rocks Pumping Station" will be read by Mr. S. Bent Russell. W. G. Brenneke, Secy.

NORTHWEST RAILWAY CLUB.—At the meeting, held at St. Paul, Minn., on March 13, a paper on "The Future Simple Locomotive," was read by Mr. Spencer Otis, M. Am. Soc. C. E. Discussions were held on the subjects: "Revision of the Master Car Builders' Rules," and "Electric Traction for Heavy Railway Service."
T. W. Flannagan, Secy.

BOSTON SOCIETY OF CIVIL ENGINEERS.—The annual dinner of the society was held at the Hotel Vendome, in Boston, on March 5. President Alexis H. French opened the meeting with a brief speech of welcome, in which he congratulated the society upon its prosperity and the exceptionally large attendance, the total number being 170. Prof. W. R. Hutton, of New York city, spoke next as the representative of the American Society of Civil Engineers. He declared integrity to be one of the chief virtues characterizing the engineering profession. The Massachusetts Institute of Technology was represented by Dr. John D. Runkle, a former President of the Institute. He devoted the most of his talk to the Walker Memorial Gymnasium, for which the alumni are trying to secure $100,000 before July 1. Mr. Harvey N. Shepard spoke for the Appalachian Mountain Club. He outlined the work done by the club in the promotion of state parks and forest preserves. The club itself now owns and maintains 20 parks. Mr. C. H. Eglee delivered a short address on the relations of engineers and contractors, illustrating his talk with some very good stories. The Lowell Institute was represented by Prof. W. T. Sedgwick. He traced the history of the institute, which was founded by John Lowell in 1836 with a bequest of $250,000, which has greatly increased since then. Dr. Samuel H. Durgin, Chairman of the Boston Board of Health, followed with a brief history of the Board. It was organized during an epidemic of smallpox 28 years ago, when a number of hospital buildings were erected. Mr. Edmond A. Whitman, a lawyer, next discussed the legal profession, contrasting the engineer, the man of exact science, with the lawyer, the man of sharp calculations. Mr. Geo. H. Frost, President of the Engineering News Publishing Co., spoke of the service rendered by engineers to great military expeditions, such as the advance of Kitchener into the Soudan, where everything depended on the railway transportation, which was kept up in the rear of the army by Major Giroward, a Canadian engineer. Prof. C. D. Bray, President of the Society of Naval Engineers, paid a tribute to the engineers of the navy and the marine architects. The meeting closed with the singing of "Auld Lang Syne."

NEW PUBLICATIONS.

PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE; 49th Meeting.—Published by the Permanent Secretary, Mr. L. O. Howard, Cosmos Club, Washington, D. C. Paper; 6¼ × 9½ ins.; pp. 409; illustrated.

Contents: List of members, meetings, etc.; Rhythms and Geologic Time, Grove K. Gilbert; On Kathode Rays and Some Related Phenomena, Ernest Merritt; The Eighth Group of the Periodic System and Some of Its Problems, Jas. Lewis Howe; Pre-Cambrian Sediments in the Adirondacks, J. F. Kemp; Some Twentieth Century Problems, William Trelease. A large number of other papers are presented by title and abstract.

PROCEEDINGS OF THE ROADMASTERS' ASSOCIATION OF AMERICA, 1900.—Edited by the Secretary, J. B. Dickson, C. & N. W. Ry., Sterling, Ill. Paper; 8vo.; pp. 147.

This volume contains the reports, papers and discussions at the meeting held at Los Angeles, Cal., in November, 1900. The committee reports include the following: "Use of Tie Plugs in Hard and Soft Woods," "Split Switches," "Reversing Alternate Bolts in Rail Joints," "Best Methods of Handling Different Kinds of Ballast." There are also papers on tie preservation by Mr. J. M. Meade, Resident Engineer of the Atchison, Topeka & Santa Fe Ry., and Mr. E. E. R. Tratman, Associate Editor of Engineering News. At this meeting the name of the association was changed, and it is now the Roadmasters' and Maintenance-of-Way Association.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3¾x6 ins., 6x9 ins., and 9x12 ins.)

ELECTRIC LAMPS AND APPLIANCES.—Guarantee Electric Co., 133-139 So. Clinton St., Chicago, Ill. Paper; 3½ × 6 ins.; pp. 32; illustrated.

This is a price-list of lamps, dynamos, motors and general electrical appliances and supplies.

ROCK DRILLS.—The Phillips Rock Drill Co., Philadelphia, Pa. Paper; 3½ × 5¾ ins.; pp. 20; illustrated.

This pamphlet describes and illustrates concisely the construction and operation of the "Badger" percussion rock drill made by the firm named.

ROTARY ENGINE.—Wm. H. Preston, Valley Junction, Wis. Paper; 4 × 6 ins.; pp. 4; illustrated.

This engine has a cylindrical chamber in which revolves a piston having notched edges forming vanes against which the steam or water impinges.

PULLEY COVERING.—The Warren Co., 26 Jackson St., Chicago, Ill. Paper; 3½ × 6¼ ins.; pp. 6; illustrated.

This material is a composition applied to pulleys and belt wheels to prevent the belts from slipping without being drawn too tight. It increases the adhesion of the belt, but does not cause it to stick to the pulley.

AIR COMPRESSOR.—Sedgwick-Fisher Co., 53 So. Clinton St., Chicago, Ill. Paper; 3½ × 6 ins.; pp. 8; illustrated.

This compressor is made specially to be attached tandem to a stationary steam engine, or to be operated by belt power. It has been described and illustrated in our columns, and the pamphlet gives testimonials regarding its use.

RADIATORS.—James B. Clow & Sons, Chicago and New York. Paper; 4¾ × 7 ins.; pp. 4; illustrated.

The firm has installed a new plant for making radiators at its works at Newcomerstown. In the new designs, styled the Buena radiators, a specialty is that the sections are put together by means of a nipple that will not rust out.

PORTABLE GRAVITY CONCRETE MIXERS.—Contractors' Plant Co., Boston, Mass. Paper; 9 ×6 ins.; pp. 96; illustrated.

The portable gravity concrete mixer is a steel trough filled with numerous rows of steel pins and deflectors staggered in order to mix thoroughly the sand, cement and aggregate as they gravitate through the trough. Water is supplied by a spray about midway of the trough so that the concrete is mixed dry in the upper half and wet in the lower half. This pamphlet contains a large number of illustrations showing the construction of the mixer and its application in various kinds of concrete work.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Mar. 14.	Test well (W.-W.),	Dover, N. J.	Feb. 28
	Advertised, Eng. News, Feb. 28 and Mar. 7.		
Mar. 14.	Electric plant,	Fort Adams, R. I.	Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 7.		
Mar. 15.	Bridge work,	Rumford Falls, Me.	Feb. 14
	Advertised, Eng. News, Feb. 14 to Mar. 7.		
Mar. 15.	Bridges (2),	Paulding, O.	Mar. 7
Mar. 15.	Docks, etc.,	New York, N. Y.	Mar. 7
Mar. 15.	Electric lighting,	Albany, N. Y.	Mar. 14
Mar. 15.	Curbing,	Holyoke, Mass.	Mar. 14
Mar. 15.	Electric railway work,	Pittsburg, Pa.	Mar. 14
Mar. 16.	Sewerage system,	Glencoe, Ill.	Mar. 14
	Advertised, Engineering News, March 14.		
Mar. 16.	Bridge abutments,	Zeandale, Kan.	Mar. 14
Mar. 16.	Naval supplies,	Washington, D. C.	Mar. 14
Mar. 16.	Macadam road,	Woodbury, N. J.	Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.		
Mar. 16.	Paving (6,600 yds.),	Marion, O.	Feb. 21
Mar. 16.	Power house and car barns,	Troy, O.	Feb. 28
Mar. 16.	Bridge masonry,	Troy, O.	Feb. 28
	Advertised, Engineering News, Feb. 28.		
Mar. 17.	Hospital building,	Kalamazoo, Mich.	Feb. 14
Mar. 18.	Bridge superstructure,	Hardin, Ill.	Feb. 14
Mar. 18.	Water-works,	Ottumwa, Ia.	Feb. 21
	Advertised, Eng. News, Feb. 21 to March 6.		
Mar. 18.	Completing U.S. bldg.,	N. Brunswick, N.J.	Feb. 28
Mar. 18.	Street bonds,	Youngstown, O.	Mar. 7
Mar. 18.	Brick sewer,	Bridgeport, Conn.	Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.		
Mar. 18.	Heating apparatus,	Brooklyn, N. Y.	Mar. 14
Mar. 18.	Office building,	Beaumont, Tex.	Mar. 14
Mar. 18.	Asphalt paving (18,750 yds.),	Atlanta, Ga.	Mar. 14
Mar. 18.	Brick paving (12,000 yds.),	Lawrence, Kan.	Mar. 14
	Advertised, Engineering News, March 14.		
Mar. 18.	Sewers,	Oklahoma City, Okla. Ter.	Mar. 14
Mar. 19.	Bridge,	Washington C. H., O.	Mar. 14
Mar. 19.	Fire apparatus,	Indianapolis, Ind.	Mar. 7
Mar. 19.	Bridge abutments,	Archbald, Pa.	Mar. 7
Mar. 19.	Naval supplies,	San Francisco, Cal.	Feb. 28
Mar. 19.	Court house,	Le Mars, Ia.	Feb. 28
Mar. 19.	Court house,	Hebron, Neb.	Feb. 28
Mar. 19.	Plans for hospital,	Milledgeville, Ga.	Feb. 14
Mar. 20.	Sale of tailings,	Arizona Territory	Feb. 14
Mar. 20.	Bridge work,	Columbus, O.	Feb. 14
Mar. 20.	Church building,	De Graff, Minn.	Feb. 28
Mar. 20.	Sewerage system,	Ft. Sam Houston, Tex.	Feb. 28
Mar. 20.	Water pipe and castings,	St. John, N. B.	Feb. 28
	Advertised, Eng. News, Feb. 28 to Mar. 14.		
Mar. 20.	Hospital buildings,	Riverside, Cal.	Feb. 28
Mar. 20.	Repairing stone dam,	Augusta, Ga.	Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.		
Mar. 20.	Stand-pipe,	Sac City, Ia.	Mar. 7
Mar. 20.	Altering building,	Philadelphia, Pa.	Mar. 14
Mar. 20.	School house,	Smithport, Pa.	Mar. 14
Mar. 20.	Grading railway (40 miles),	Mexico	Mar. 14
Mar. 20.	Paving (6,230 yds.),	Meadville, Pa.	Mar. 14
	Advertised, Engineering News, March 14.		
Mar. 20.	Sewers,	Meadville, Pa.	Mar. 14
	Advertised, Engineering News, March 14.		
Mar. 20.	Supplies,	Pittsburg, Pa.	Mar. 14
Mar. 21.	Asphalt paving (15,500 yds),	St. Paul, Minn.	Mar. 14
Mar. 21.	Sewer,	Des Moines, Ia.	Mar. 14
Mar. 21.	Park work,	New York, N. Y.	Mar. 14
Mar. 21.	Sewer,	Des Moines, Ia.	Mar. 7
Mar. 21.	Beacons (3),	Mobile, Ala.	Feb. 28
	Advertised, Eng. News, Feb. 28 and Mar. 7.		
Mar. 21.	School house,	Natchez, Miss.	Feb. 21
Mar. 22.	School house,	Campbell, Minn.	Feb. 28
Mar. 22.	Bridge work,	St. Joseph, Mo.	Mar. 14
Mar. 22.	Heating apparatus,	Waupoca, Wis.	Mar. 14
Mar. 22.	Bridge,	Delaware, O.	Mar. 14
Mar. 23.	Plumbing,	Delaware City, Del.	Mar. 14
	Advertised, Eng. News, Mar. 14 and 21.		
Mar. 23.	Fireproof floor,	Boston, Mass.	Mar. 14
Mar. 23.	School addition,	Toledo, O.	Feb. 28
Mar. 23.	Fire protection system,	Bremerton, Wash.	Feb. 14
Mar. 23.	Heating plant,	Washington, D.C.	Feb. 14
Mar. 23.	Fire protection plant,	Bremerton, Wash.	Mar. 7
Mar. 23.	School house,	Washington, D. C.	Mar. 7
Mar. 23.	Grading,	Washington, D. C.	Mar. 7
	Advertised, Engineering News, Mar. 7.		
Mar. 25.	School houses,	Cleveland, O.	Mar. 7
Mar. 25.	Sewers,	Toledo, O.	Mar. 7
Mar. 25.	Addition to jail,	Dyersburg, Tenn.	Feb. 28
Mar. 25.	School house,	Blue Earth, Minn.	Feb. 28
Mar. 25.	Ferry bridge,	Duluth, Minn.	Feb. 28
Mar. 25.	Bridge,	Snohomish, Wash.	Mar. 14
Mar. 25.	School house,	Galesburg, Ill.	Mar. 14
Mar. 25.	Stand-pipe, etc.,	Luling, Tex.	Mar. 14
Mar. 25.	School house,	New York, N. Y.	Mar. 14
No date.	Railway (113 miles),	(L. & G. N.), Tex.	Feb. 21
	Advertised, Eng. News, Feb. 21-28, March 7.		
"	Electric plant,	Sturgeon Bay, Wis.	Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.		
No date.	W.-wks and light plant,	Sturgeon Bay, Wis.	Mar. 14
	Advertised, Eng. News, Mar. 7 and 14.		
"	Electric railway supplies,	Steubenville, O.	Mar. 14
"	Water-works,	Sturgeon Bay, Wis.	Mar. 7
	Advert'sed, Eng. News, Mar. 7 and 14.		

RAILWAYS.

ADENA.—Reported as incorporated in Ohio with a capital stock of $1,000,000, for the purpose of building a line of railway from Adena, O., to Martin's Ferry, tapping extensive coal territory. The Wheeling & Lake Erie R. R. is said to be behind the new company. W. B. Whiting, J. P. Stark and W. C. Boyle, Cleveland, O., are incorporators.

ARKANSAS & SOUTHWESTERN.—This road has been purchased by Wm. Grayson and N. W. McLeod, of the St. Louis Refrigerator & Wooden Gutter Co., St. Louis, Mo., who propose to extend it at once to Gurdon, Ark., where they have a large plant, and will also build a line north to the timber lands owned by the St. Louis Refrigerator & Wooden Gutter Co.

BRITISH COLUMBIA.—It is reported that the Canadian government has decided to grant a charter for a railway from the Big Crow's Nest Pass mines, in Kootenay, to the United States boundary, connecting with the American smelter system on the Pacific Coast, controlled by J. J. Hill, J. Pierpont Morgan and John D. Rockefeller, who control the stock of the Crow's Nest Co.

CANE BELT.—L. E. Beadle, Ch. Engr., Wharton, Tex., writes us that one line to Bay City, 8½ miles southeast of Wharton, has been completed, and work is now under way on the construction of a line from Lane City to Bay City, about 17¼ miles. Surveys have been completed to the mouth of the Brazos River. The general headquarters of the company are at Eagle Lake.

CHICAGO, BURLINGTON & QUINCY.—Reports state that this company will expend about $1,500,000 in double tracking its line between Creston and Red Oak, Ia., a distance of 50 miles; also $600,000 in double tracking between Agency and Ottumwa, Ia., seven miles. The route between Creston and Red Oak will be shortened about one mile by the elimination of curves.——A contract is reported to have been let for building a cut-off on the main line between Red Oak and Villisca, which will represent an expenditure of about $696,000.

COLORADO & NORTHWESTERN.—The stockholders of this company have decided to build a branch line to the Eldora mine, in Colorado, from Sunset, about 16 miles in length. Chas. B. Culberton, Gen. Mgr., Boulder, Colo.

DULUTH, RED WING & SOUTHERN.—Arrangements are reported to have been made by the Duluth, Red Wing & Sioux City Construction Co. by which work at Red Wing, Minn., on the extension to Duluth, about 156 miles, will begin. L. F. Hubbard, Vice-Pres. and Gen. Mgr., Red Wing.

ENID & ANADARKO.—Incorporated in Oklahoma with a capital stock of $100,000, for the purpose of building a road from Enid southwest to Anadarko, in the Kiowa and Comanche Indian Reservation, a distance of 110 miles. The road will be a branch of the Chicago, Rock Island & Pacific system, and will have its principal office at Enid, Okla. M. A. Low, J. C. Marshall and S. H. Thompson are incorporators.

ERIE.—Plans are said to have been completed for extensive car and locomotive shops at Salamanca, N. Y., which will employ about 2,000 hands. The company's shops at Meadville, Pa., and at Hornellsville, N. Y., will probably be abandoned. C. W. Buchholz, Ch. Engr., 21 Cortlandt St., New York.

ESCANABA & LAKE SUPERIOR.—An extension of this road to Boney Falls, Mich., 15 miles, will be made in the spring. The company is said to be figuring on establishing a car ferry line between Escanaba and some southern Michigan point not yet determined. J. W. Wells, Gen. Mgr., Menominee, Mich.

EUREKA-SHASTA.—Negotiations are being made for the capital for building this projected road. It is announced that the people of Humboldt and Shasta counties, Cal., have agreed to take $500,000 of the company's bonds. The construction will probably be started in the next four months. The road is being promoted by Lord Thurlow and George D. Proctor.

FLORENCE & CRIPPLE CREEK.—The Golden Circle branch of this road will be extended from its present terminus at Vista Grand to Cripple Creek, Colo. Condemnation proceedings for the right of way will be started at once. A. B. Thurston, Res. Engr., Florence, Colo.

GEORGIA PINE.—The contract for the extension of this road from Bainbridge to the Ochlochnee River, a distance of 30 miles, has been let to J. H. Davidson & Co., Thomasville, Ga. Work will begin at once. The road will be extended further to Tallahasse, Fla., at some future date.

GREAT EASTERN.—Arthur Pew, Ch. Engr., Macon, Ga., informs us that the company is now completing a three-mile extension of its main line, and is preparing to extend four miles further. The road is in Decatur county, Ga., and runs from Swindell's Landing on the Flint River, eastwardly in the direction of Pelham.

GULF, COLORADO & SANTA FE.—Surveyors are reported to be in the field locating a line in the interest of this company from Robin, a small station on the Montgomery branch, in Texas, north through the valley of the Trinity River for a distance of 60 miles. The line traverses a rich agricultural district, including Grimes, Madison, Leon and Freestone counties, at present without railway facilities. It is said that the line will continue to Waco, a further distance of about 90 miles. C. F. W. Felt, Ch. Engr., Galveston, Tex.

IOWA.—Reports state that L. F. Wakefield, of Sioux City, Ia., is now in Des Moines for the purpose of letting contracts for the grading of a railway for the Empire Coal Co., which will connect its coal fields on the Cedar River with Bussey on the Wabash River, six miles distant. The work will cost about $100,000. L. G. Everist is President of the coal company, and Geo. H. Hollandsworth is Secretary.

KINGSTON & CENTRAL MISSISSIPPI.—F. W. Pettibone, Laurel, Miss., informs us that 20 miles of this road has already been completed and the materials for 25 miles further are now on the ground. The right of way for a distance of 50 miles has been secured and grading on that section is finished. The Kingston Lumber Co. has the contract. The road will traverse an undeveloped country, and will be about 100 miles in length. Geo. Beckner, Ch. Engr., Laurel, Miss.

LITTLE ROCK & EASTERN.—Incorporated in Arkansas with $75,000 capital stock, to build a switch within the city limits of Little Rock, Ark., to be five miles in length. C. M. Newton, Geo. W. Rogers and B. W. Green are interested.

MARQUETTE & SOUTHEASTERN.—J. T. Donkling, Ch. Engr., Marquette, Mich., informs us that the contract for building the 27-mile line from Marquette to a connection with the Munising Ry., has been let to McDonell Bros. & Co., of Grand Rapids, Mich., who have already commenced work. Wm. S. Mather, Pres., Cleveland.

MASSACHUSETTS.—City Engineer Hastings, of Cambridge, has submitted a special report to the city council on the abolition of the 13 grade crossings in that city. The estimates apportion the cost as follows: Boston & Albany R. R., $1,404,482; Boston & Maine R. R., $451,122.

MISSOURI PACIFIC.—The construction of a line from Booneville, Mo., to Jefferson City, following the Missouri River, is to be started at once and to be completed this summer.——The company has purchased the "Diamond Joe" R. R., running between Malvern and Hot Springs, Ark., about 21 miles, and will probably make improvements to the property. J. W. Way, Ch. Engr., St. Louis.

NEW ORLEANS, NATCHEZ & ARKANSAS.—Incorporated in Mississippi with a capital stock of $1,000,000, to build a railway from Vidalia, La., to Lake Providence, La. Howard Cole, Secy., Vicksburg, Miss., states that surveyors will take the field by March 15. A. T. Averill, Pres., Cedar Rapids, Ia.; Curtis Judd, Vice-Pres., Lynn, Mass.; J. E. Bealer, Treas., Cedar Rapids, Ia.

NEW YORK, NEW HAVEN & HARTFORD.—It is announced that the company has decided to transfer all its repair shops to Newport, R. I., and will soon begin the construction of the new buildings at that point, to cost about $250,000. The new buildings will comprise an office building, carpenter, machine and blacksmith shops, power house, boiler house and large storehouse. C. M. Ingersoll, Jr., New Haven, Conn.

NORTHERN PACIFIC.—E. H. McHenry, Ch. Engr., St. Paul, Minn., informs us that a survey is now in progress for the projected revision of line between Lind and Ellensburg, Wash., but construction has not been authorized.

PENNSYLVANIA R. R.—In the annual report of the board of directors the following works are given as necessities for this year: Station at Pittsburg, Pa.; the elevation of tracks and the reconstruction of passenger terminals at that point; the elevation of track through the city of Newark, N. J.; also through New Brunswick, N. J.; a new bridge over the Delaware River at Trenton, N. J.; a new passenger station at Camden, N. J.; the elevation of tracks on the line between Philadelphia and Washington in Chester and Wilmington; rebuilding of passenger station in Washington, D. C.; the elimination of grade crossings in that city, and the erection of a new bridge over the Potomac River; the completion of the four-track system on the Main Line; considerable expenditures for additional terminal facilities at various points, and for real estate, power and equipment.——Work will soon be started by P. McManus & Co., contractors, on the grading of the line through the Lewistown Narrows for two additional tracks on the Middle Division. The contractors will put about 1,000 men on the work.——Booth & Flinn, contractors, of Pittsburg, Pa., have started work on the improvement work on the Pittsburg Division, which will consist of completing the four-track system between Stewart and Larimer, four miles, at a cost of about $250,000.——Work has been started by P. H. Rehill, contractor, Lafayette, N. J., on the construction of a road from the Newark Bay shore in Bayonne, N. J., to the New York Bay shore at Greenville.

PHILADELPHIA & READING.—The company has awarded contracts as follows: To Ryan & Kelly, 8 Broad St., Philadelphia, Pa., a contract for erecting a signal tower at Glenside, Pa.; to P. McManus & Co., 1430 South Penn Square, Philadelphia, for taking down and rebuilding the masonry substructure for two new spans of the bridge over the Schuylkill River at Poplar Neck.

ST. LOUIS, OKLAHOMA & SOUTHERN.—J. F. Hinckley, Ch. Engr., Supulpa, Ind. Ter., writes that track-laying on this road was completed to Denison, Tex., on Feb. 28. The distance from Supulpa is 198 miles, and from St. Louis, 635 miles.

SOUTHERN INDIANA.—The surveys for the line through West Baden, Ind., have been completed and work will probably be started as soon as the weather permits. J. W. Thompson, Gen. Supt., Bedford, Ind.

SOUTHERN MISSOURI.—C. H. Bosworth, Pres., 204 Dearborn St., Chicago, informs us that surveys for this newly-incorporated road have been partially completed and the rights of way are now being secured. Contracts will be let in early summer. The road will run from Ste. Genevieve, Mo., through Farmington, Flat River and Bismarck, about 48 miles. Robt. Moore, Ch. Engr., Laclede Bldg., St. Louis, Mo.

SOUTHERN UNION.—Geo. F. Anderson, Pres., Danville, Ky., writes that the surveys and rights of way for the company's road are about completed. The construction capital is secured in part. Contracts will be made this summer. The road will run from Buckeye, Ky., to a point on the Cincinnati Southern R. R., about Oneida, Tenn., having a length of 20 miles. It will pass through a rich timber and coal section in Kentucky and Tennessee, and will bring Cincinnati and Louisville 35 miles nearer the south. Jerry Respess, Ch. Engr., Lancaster, Ky.

TENNESEE CENTRAL.—The control of the Nashville & Knoxville road has been secured by this company. Jere Baxter, Pres., Nashville, Tenn., is reported as stating that the construction of the proposed road between Nashville and Lebanon, a distance of 30 miles, would be started at once. Contracts will be let for building the line between Nashville and Clarksville as soon as the surveys are completed. It is expected to have the line between Nashville and Lebanon finished within six months and the proposed road between Nashville and Clarksville in 12 months.

UNION PACIFIC.—Reports state that the company will at once commence the construction of its long-contemplated branch road from Walcott, Wyo., to the mining camps at Saratoga, Grand Encampment and Battle Lake. The road will be nearly 60 miles in length. J. B. Berry, Ch. Engr., Omaha, Neb.

WABASH.—Work has been started on the extension from Toledo to Montpelier, O., about 40 miles, for which $3,000,000 construction and $3,000,000 equipment bonds have been issued.

STREET AND ELECTRIC RAILWAYS.

BOSTON, MASS.—The Providence & Fall River St. Ry. has filed a certificate of incorporation with the Secretary of the Commonwealth. The road will be capitalized at $200,000, and will be 14 miles in length, extending from the tracks of the Dighton, Somerset & Swansea St. Ry., in Somerset, through Swansea, Rehoboth and Sekonk to the Rhode Island state line. J. G. Shaw, Geo. Butman and G. W. Hathaway are incorporators.

ALBANY, N. Y.—The Richmond Beach Ry. Co. has been incorporated to build an electric railway 14 miles in length from Arbutus Lake to the tracks of the States Island Rapid

Transit R. R., near Annadale Station, Staten Island. The capital stock is $20,000. Wm. B. Rockwell, New York city; E. C. Brown, Perth Amboy, N. J., and Chas. Johnson, Sea Side, S. I., are interested.

CLYDE, N. Y.—The village board has granted a franchise to C. A. Lux for an electric railway through this village.

FLUSHING (L. I.), N. Y.—It is said that work will be started shortly by the New York & Queens County Ry. on a double-track line on Jackson Ave. It is expected to have the road finished by summer. I. M. Tritt, Secy., Long Island City.

TRENTON, N. J.—The Lancaster County Ry. & Lake Co. has been incorporated with $2,000,000, for the purpose of constructing and operating electric light, gas and power plants and to build and operate an electric railway outside of New Jersey. Samuel R. Shipley, Philadelphia; Wm. W. Griest, Lancaster, Pa., and Wm. B. Given, Columbia, Pa., are interested.

COLUMBIA, PA.—Wm. B. Given, Pres. Conestoga Traction Co., is reported as stating that contracts have been made with J. G. Brill & Co. for eight cars, to be used on the company's line, and with the Westinghouse Co., Pittsburg, for the electrical equipment for the cars, which consists of two 60-HP. motors each; also with the Pennsylvania Steel Co. for 22 miles of 90-lb. T rails, and with the Western Electric Co. for a like amount of trolley wire and 45 miles of feeder wire.

EASTON, PA.—A. T. Groman, Secy. Lansdale & Norristown Electric Ry., Easton, writes us that the company is making arrangements for awarding contracts at an early date for building its line between those points, 12 miles. S. S. Emery, Pres., Butztown.

McKEESPORT, PA.—It is stated that the Elizabeth & Dravosbury Traction Co. is seeking an entrance into this city. The rights of way have been obtained and plans for construction perfected. Dr. A. M. Pierce, Elizabeth, and W. T. Pierce, McKeesport, are interested.

PITTSBURG, PA.—Bids are asked until March 15 for grading nine miles of the Pittsburg, McKeesport & Connellsville Ry., between Mt. Pleasant and Scottdale, Pa., and for constructing a car shop at McKeesport. Plans and specifications may be seen at the office of W. D. Chapman, Ch. Engr., Connellsville. M. R. McAdoo, Gen. Mgr., Room 44, First National Bank Bldg., Pittsburg.

SOUTH BETHLEHEM, PA.—The Philadelphia, Trenton & Lehigh Valley R. R. Co. has been organized with a capital stock of $700,000, to build an electric railway from Trenton to Philadelphia, with a branch from Philadelphia to Allentown. The company's offices will be in the Fidelity Bldg., Philadelphia. Albert L. Johnson, W. J. Hartzell and Henry C. Barrow are interested.

WILMINGTON, DEL.—C. R. Van Trump, Supt. Wilmington City Ry., writes us that the power house on the Brandywine, north of this city, has been contracted for.—The Wilmington, Newark & Elkton Ry. Co. has applied for permission to build a line from Seventh and Market Sts. to Seventh and Clayton Sts.

RICHMOND, VA.—The council has adopted the ordinance requiring the Richmond Passenger & Power Co. to institute an underground system from Laurel St. to 28th St.

DURHAM, N. C.—R. H. Wright, Pres. Durham Traction Co., informs us that the rights of way and charter have been secured for the proposed new electric road from Durham to East and West Durham, about seven miles. Bonds have been issued, but no contracts have been let.

CHARLESTON, S. C.—The council has granted the Charleston, Suburban & Summerville R. R. a franchise to build an electric road between those towns named, the track work to be started by March 12.

MONTGOMERY, ALA.—Frank Baltzell, Montgomery, writes us that for various reasons the organization of the Montgomery & Selma Ry. cannot be effected before April 15. The projected road will be operated by electricity and will extend through Prattsville, Autaugaville, Mulberry and Statesville, a distance of 50 miles.

LOUISVILLE, KY.—Stock to the amount of $10,000 has been subscribed for towards the Hartford & Beaver Dam Electric Ry., and work on that road will begin about May 1, and will be finished in the summer. The road will be four miles in length, connecting Hartford with the Illinois Central Ry. at Beaver Dam, and will pass through Taylor, McHenry and Render, mining towns. The power house will be located in Hartford, and will furnish electric light for that town and Beaver Dam. It is likely that an ice plant will also be built. O. M. Barnet, Pres.; Rowan Holbrook, Vice-Pres., and S. A. Anderson, Secy.

COLUMBUS, O.—It is stated that the Findlay Southeastern Ry. has been organized and will soon file incorporation papers for the purpose of building an electric line from Toledo to this city, using the electric line now operating from Toledo to Findlay and connecting with the extension of the Columbus, Worthington & Clintonville road at Delaware. R. Rostenstock, Cleveland, and J. Odenbaugh, Sandusky, are promoters.

COLUMBUS, O.—The Cincinnati, Milford & Hillsboro Ry., of Hillsboro, has been incorporated with $10,000 capital stock by H. L. Wiggins, J. B. Worley, D. W. Murphy and others, who propose to connect Hillsboro and Milford with an electric line, passing through Highland, Brown, Clermont and Hamilton counties.

ELYRIA, O.—Geo. H. Chamberlain writes that a private right of way has been secured for nearly the entire length of the Elyria, Grafton & Southern Ry., eight miles, and the construction capital is secured. Surveys have not yet been made. Contracts have been let for ties and rails, which are now being delivered along the route. Construction will commence as soon as the weather permits. Sumner B. Day, Pres.

STEUBENVILLE, O.—Geo. A. Maxwell informs us that the Steubenville & Pleasant Heights Traction Co. is now in the market for all supplies necessary in the construction and equipment of its proposed road, excepting the power plant.

FRANKFORT, IND.—A petition has been filed in the county auditor's office for a franchise covering more than 100 miles of gravel roads in this county for electric railway lines. It is proposed to build a trunk line from Indianapolis to this city, with diverging lines to Crawfordsville, Lafayette, Delphi, Logansport, Kokomo and Tipton. The petition is signed by John D. Thompson, Secy., Indianapolis Board Ripple line; Wm. P. Herod, Indianapolis, and others.

BENTON HARBOR, MICH.—The Kalamazoo Traction Co. has been granted a franchise to build through this city. Work will be started as soon as the weather moderates. The line will be about 82 miles in length, and will cost about $1,500,000. L. A. Palmer, attorney for company.

DOWAGIAC, MICH.—The council has granted a franchise to the Lake Michigan & Eastern Electric Ry. for a line through this city, to be in operation within two years.

MATTOON, ILL.—The project to build an electric railway from Oakland to Ashmore, via Spring Lake and Newman, is being promoted by Cole county capitalists, headed by S. C. Pemberton, W. P. Fanning and others.

JANESVILLE, WIS.—The Janesville, Beloit & Delevan Lake Ry. has been incorporated with $100,000 capital stock, to build an electric line between this city and Rockford at once, to extend the line from Beloit to Delavan Lake next year, and to arrange the location of the terminus in this city so that a line may ultimately be built to Madison. The company will use 70-lb. rail. Thos. A. Nolan, Jessie Earle and Ed. H. Peterson, of Janesville, are interested.

MILWAUKEE, WIS.—The Milwaukee Electric Railway & Light Co. proposes to extend its Eighth St. line north from Center St. to Concordia Ave., and one mile west on Concordia Ave. to connect with the Teutonia Ave. line. A franchise for this is being prepared. John I. Beggs, Gen. Mgr.

OSKALOOSA, IA.—C. Winter writes us that about two-thirds of the right of way for the electric line to be built by the Oskaloosa St. Ry. & Land Co. has been secured. The capital is secured, but the date of letting contracts is undecided. The road will run from Oskaloosa to Beacon, about six miles or more. W. M. Peatman, Pres., Centerville.

INDEPENDENCE, KAN.—J. B. Wallace, Independence, informs us that the franchise has just been secured to build an electric road from this city to Coffyville and Cherryvalle, about 30 miles, and that the prospects for early construction are very bright.

NIOBRARA, NEB.—About 35 miles of electric railway in Knox and Boyd counties is contemplated. The power will be furnished by the Niobrara Irrigation & Power Co. Address Arnold C. Koenig, Ch. Engr., Grand Island, Neb.

JEFFERSON CITY, MO.—The Independent Electric Ry. has been incorporated with a capital stock of $2,000. The company will conduct the plans of the Kansas City & Leavenworth Electric Ry. Co. in Kansas City, which will be to build an electric road from Kansas City, Kan., to Kansas City, Mo., building a bridge across the Kaw River and a viaduct over the railway tracks at Sixth and Bluff Sts. A. M. Hayes, J. W. Crowley and Sidney Moore, Kansas City, Mo., are interested.——The Springfield, Jefferson City & Chicago R. R. has been incorporated with a capital stock of $2,700,000. The proposed road will extend from Jefferson City to Springfield and Lawrence county in Missouri, a distance of 200 miles. G. S. Adams, Sac City, Ia.; J. G. Bridges, Grimes, Ia., and J. E. Fulkerson, Lebanon, Mo., are incorporators.

DENVER, COLO.—R. Curtis, Pres. Denver City Tramway Co., has agreed to extend the company's 11th St. line for a distance of about one mile.

SANTA ROSA, CAL.—Local papers announce a project to build an electric railway from Petaluma through Santa Rosa and Healdsburg to the Geysers, passing through the Pine Flat quicksilver district in Sonoma county. A franchise will soon be applied for.

SALT LAKE CITY, UTAH.—Local papers state that the Salt Lake City R. R. will ask for a franchise to extend its line on Seventh East from Ninth South to Fourteenth South St. W. P. Reed, Supt.

BEAVERTON, ONT.—Alex. Dobson has asked the council for permission to build an electric railway from his peat works to the G. T. R. station.

HAMILTON, ONT.—A. J. Nellis, Mgr. Hamilton, Grimsby & Beamsville Electric Ry., writes that owing to the delays in securing the necessary franchises, rights of way, etc., for the company's proposed 12-mile electric line, work will not be started this year.

ST. THOMAS, ONT.—The St. Thomas St. Ry. will shortly start work on an extension of its system to Port Stanley, according to reports. M. B. Thomas, Ch. Engr.

WINDSOR, ONT.—Cleary & Sutherland, Windsor, informs us that application has been made to the Legislature for power to incorporate the Essex & Kent Radial Ry., which will build a road through Essex and Kent counties. The capital has not been secured. It is undecided as yet as to the kind of motive power to be employed. Alex. Baird, Ch. Engr., Leamington, Ont., will be able to advise further.

ELECTRIC LIGHT AND POWER.

MT. VERNON, ME.—It is stated that this town is considering the question of electric lights.

ALBANY, N. Y.—Bids are asked by the board of contract and supply until March 15 for lighting the city for five years from June 21. Isidore Wachsman, Clk. Bd.

FULTON, N. Y.—Simon R. Storer, of Syracuse, said to represent the Westinghouse Co., has applied to the council for a franchise for a plant.

TROY, N. Y.—This city will ask the legislature for permission to issue bonds for erecting a municipal plant. Address Corporation Counsel Fagan.

WHITE PLAINS, N. Y.—Bids are asked by the board of trustees until May 15 for furnishing 25 1,200-c. p. arc and 325 20-c. p. incandescent lights, or 325 32-c. p. incandescent lights, all night, for one, two or three years from Nov. 1. John J. Brown, Pres. Bd.; Wm. B. Sutherland, Village Clk.

CAMDEN, N. J.—We are informed that the South Jersey Gas, Electric & Traction Co. does not intend to erect a new plant here this year. Paul Leipke, Engr. Electrical Dept.; R. Stockton, Asst to Pres.

FRENCHTOWN, N. J.—The council is said to have granted John Hyde, of Trenton, a franchise to erect a plant.

EAST BROOK, PA.—It is stated that W. S. Moore will install a plant at his quarries here.

MEDIA, PA.—The council has decided to erect a municipal plant, according to reports.

YORK, PA.—The council is said to have granted a franchise to the Merchants' Heat, Light and Power Co.

DOVER, DEL.—The legislature has passed a bill, authorizing this city to issue $60,000 in bonds for a plant and water-works.

BERRYVILLE, VA.—A company in which Lloyd Lowndes, of Cumberland, Md., is said to be interested contemplates the development of the power in the Shenandoah River, near Halltown, W. Va.

WARRENTON, VA.—This city is said to be considering the question of lighting the streets by electricty.

RAVENSWOOD, W. VA.—Press reports state that this city has voted to issue $7,000 in bonds for erecting a plant.

COVINGTON, GA.—It is stated that a special election will soon be held to vote on the question of issuing bonds for erecting a plant.

MONTICELLO, GA.—It is stated that Bonner Jordan contemplates erecting a plant here.

THOMASTON, GA.—This city recently voted to issue $10,000 in bonds for erecting a municipal plant, and desires to receive plans and specifications for its erection. Thad. Adams, Clk. Council.

TAMPA, FLA.—Bids are asked until March 29 for lighting the city for two, three or five years. W. H. Frecker, Chn. Light Com.

BESSEMER, ALA.—The legislature is said to have passed a bill, authorizing this city to issue bonds for erecting a municipal plant.

MARION, ALA.—Press reports state that the council is considering the question of erecting a plant.

KNOXVILLE, TENN.—Press reports state that the Knoxville Power Co. will build a lock, to cost about $300,000, and a dam to cost about $500,000, and erect a plant on the Tennessee River. Gen. John T. Wilder and Albert S. Caldwell are said to be interested.

AKRON, O.—A. J. Rowley is said to have asked the council for a franchise for a power and steam heating plant, to cost about $100,000. D. F. Anderson and F. G. McConnell, of Youngstown, are also interested.

BEREA, O.—Reports state that the question of issuing bonds for extending the plant and water-works will be voted on at the regular election, April 1.

CANTON, O.—Bids are asked until March 29 for lighting the city for from one to six years. L. Ley, Clk.——The Canton Light, Heat & Power Co., is said to have increased its capital stock for the purpose of extending and improving its plant. J. W. Underhill, Pres.; P. E. Mooch, Ch. Engr.

DELPHOS, O.—Reports state that the council is considering the question of calling a special election to vote on the question of issuing $15,000 in bonds for erecting a municipal plant.

MANSFIELD, O.—The council has decided to call a special election to vote on the question of issuing $65,000 in bonds for erecting a plant, according to reports.

GRAND RAPIDS, MICH.—The Consolidated Water Power Co. is said to have secured water rights, etc., and will build a dam and plant, to cost about $300,000.

ST. JOSEPH, MICH.—We are informed that at a special election held March 4, this city voted to issue $12,000 for erecting a municipal plant at the water-works. C. S. Rigby, Cy. Engr.; Dr. L. I. McLain, Chn. Bd. Pub. Wks.

ASHLAND, WIS.—It is stated that the Chicago & Northwestern Ry. contemplates erecting a plant here. E. C. Carter, Ch. Engr., Chicago, Ill.

THORPE, WIS.—At a special election, the people of this town recently voted to issue $6,000 in bonds for erecting a plant in connection with the water-works.

WASHBURN, WIS.—The council is reported to be considering the question of purchasing the plant of the Washburn Electric Light & Power Co.

MANKATO, MINN.—This city is considering the question of erecting a municipal plant, according to reports.

SABETHA, KAN.—The council is considering the question of erecting a municipal plant, to cost about $10,000, according to reports.

VALENTINE, NEB.—Press reports state that S. F. Gilman will erect a plant here.

LITTLE ROCK, ARK.—The council is said to have appropriated $16,000 for enlarging the municipal plant.

HENRIETTA, TEX.—We are informed that the Southwestern Electrical Engineering & Construction Co. has been awarded the contract for erecting the proposed plant of the Henrietta Light & Power Co. to cost about $4,000. W. F. Suddath, Secy.

TACOMA, WASH.—David Wilson is said to be interested in a company which proposes to spend about $200,000 in developing the water power at Spokane River Falls.

PALMERSTON, ONT.—It is stated that the people of this city will soon vote on the question of issuing bonds for erecting a municipal plant.

BRIDGES.

AUGUSTA, ME.—The legislature has appropriated $1,000 towards the building of a bridge across the St. Croix River in the town of Masardis. The balance of the money is to be raised by the town. The bridge will be of steel.

RUMFORD FALLS, ME.—The contract for building a Melan arch bridge of two spans, 80 ft. each, and 38 ft. in width, over the power canal at Hartford St., has been let to O'Hern & Berrigan, New York. Chas. A. Mixer, Engr., Melan Arch Construction Co., New York, Designing Engrs.

FALL RIVER, MASS.—Philip D. Borden, Cy. Engr., informs us that plans for the elimination of grade crossings have been accepted and details for the work are now being arranged. The land damages are now being settled, and it is likely that work will be started in a short time.

NEW YORK, N. Y.—Bids were received by the department of bridges on March 11 from the following contractors for constructing the tower foundation for bridge No. 3 in the borough of Brooklyn: Williams & Gerstle; Rogers, McMullen & McBean; Liebman & Galagan; Bernard Wolf; Ryan, Parker & Moran, and Joseph Hendlor.

GLOUCESTER CITY, N. J.—The Camden, Gloucester & Woodbury Trolley Co. has decided to build an iron drawbridge at Big Timber Creek, to replace the present drawbridge. E. Threfall, Ch. Engr.

JERSEY CITY, N. J.—Reports state that the Delaware, Lackawanna & Western R. R. has applied to the War Department for permission to erect piling and falsework to be used in renewing the drawbridges on the Morris and Essex Division, where the line crosses the Hackensack River in this city, and the Passaic River in Newark. W. B. Hixson, Supt. Bridges and Bldgs., Hoboken.

PITTSBURG, PA.—The Pittsburg & Lake Erie R. R. has awarded the contract for the reconstruction, lengthening and elevation of the Fleming Park bridge across the back channel of the Ohio River to Neville Island, to the American Bridge Co.

READING, PA.—Alex. Murdoch, Cy. Engr., informs us that the proposed bridge at Spring St., between Sixth and Eighth Sts., this city, will be a through Pratt truss highway structure, on masonry foundation, with iron approaches 330 ft. in length. It will have two 164-ft. spans and a 30-ft. roadway, with 6-ft. walls on either side.

RALEIGH, N. C.—A bill has passed the legislature authorizing the commissioners of Harnett county to build a bridge across the Cape Fear River and to issue bonds for same.

ALEXANDRIA, LA.—J. M. Phillips, Ch. Engr. Shreveport & Red River Valley Ry., Alexandria, informs us that work was started on March 8 on the company's bridge across the Red River at this place by Eppel & Hayes, contractors. The bridge will be 941 ft. long with a draw span. The total length with approaches will be 4,800 ft. Waddel & Hendrick, Des. Engrs., Kansas City, Mo.

OCEAN SPRINGS, LA.—The contract for the new steel drawbridge over Fort Bayou, at the foot of Washington Ave., has been let by the board of supervisors to the Geo. E. King Bridge Co., Des Moines, Ia., at $9,000.

JOHNSONVILLE, TENN.—It is reported that the bridge over the Tennessee River at this place was recently burned. The structure consisted of seven spans and was owned by the Nashville, Chattanooga & St. Louis. R. R.

CLEVELAND, O.—C. F. Lewis, 307 The Cuyahoga, is reported to have made the following estimates on the proposed high level bridge at Conneaut. According to five plans: $116,066, $122,006, $149,335, $167,852 and $195,181.

MARIETTA, O.—The following bids were received by W. P. Mason, Cy. Engr., on March 4 for building a guide pier around the pivot pier of the Putnam St. bridge:

Bidders.	Concrete Pier.	Timber Crib Pier.
John Wilking, Marietta, O.	$18,935	$17,473
F. M. Townsend, Zanesville, O.	16,215	16,560
James Whissel & Co., Marietta, O.	18,005	14,551
J. T. Hart, Marietta, O.	22,000	27,270
P. Q. Shrake, New Matamoras, O.	15,161	13,028
Adams Bros., Zanesville, O.	15,321	13,340
W. J. Berry, Dillie's Bottom, O.	*14,646	13,347

*This bid will likely be accepted.

DELAWARE, O.—Bids are asked until March 22 for building a single through steel bridge over Alum Creek, according to reports. Frank Warren, County Audr.

WASHINGTON C. H., O.—Bids are asked until March 19 for one low truss steel bridge over Payne Creek, to be 91 ft. in length; estimated cost, $5,600. D. R. Jacobs, Engr.

INDIANAPOLIS, IND.—The county commissioners have awarded contracts for the superstructure of the bridge over White River at Raymond St. to the American Bridge Co., at $17,770, and the masonry to Wm. Fife, at $790; superstructure for Germantown pike bridge, over Fall Creek, to the Toledo Bridge Co., at $15,725; substructure to Samuel Robins, $1,268; superstructure for bridge over Fall Creek, at Emory's ford, to the Toledo Bridge Co., and substructure to Thomas Frazier, $725.

GRAND RAPIDS, MICH.—The following bids were received by the board of public works on March 8 for the removal of the present bridge over the east side canal and replacing it over the canal at the west end of the long bridge, and for the construction of a new steel-ribbed concrete bridge over the east side canal: Grand Rapids Bridge Co., Melan arch bridge, $31,286; Thatcher, $30,286; Hoosier Bridge Co., Indianapolis, Ind., $29,989.

CHICAGO, ILL.—Bids are asked until May 8 for building a Scherzer Rolling Lift bridge over the Chicago River at Randolph St. Alex. J. Jones, Pres. Bd. Trustees, Sanitary District of Chicago.

FREEPORT, ILL.—G. W. Graham, Cy. Engr., writes us that the plans for the proposed bridge across the Pecatonic River at Stephenson St. have not yet been prepared. The proposed structure will have three spans, each 70 ft. in length, and will be 66 ft. wide. The style of structure is not decided on, although a plate girder bridge will probably be used.

GALESVILLE, WIS.—Wm. W. Davis, Galesville, informs us that the proposed bridge at this place will have two 100-ft. spans and will be either an iron or steel structure, costing in the neighborhood of $4,000.

DUBUQUE, IA.—City Engineer Blake has been instructed to prepare plans and specifications for the proposed Fourth St. viaduct over the railway tracks.

OTTUMWA, IA.—Bids are asked until April 1 for constructing a wooden trestle bridge in Blackhawk St. T. F. Keefe, Chn. St. Com.

ST. CLOUD, MINN.—John D. Morgan, County Engr., 812 Seventh Ave., St. Cloud, informs us that the contract for the steel bridge over the Clearwater River has been let to the Gillette-Herzog Mfg. Co., Minneapolis.

LEAVENWORTH, KAN.—The contract for constructing a steel bridge over the Kaw River at Linwood has been let by the county commissioners to the Missouri Valley Bridge Co., at $15,500. The work is to be completed by June. The other bidders were Chapin & Greever, Leavenworth, $15,649, and A. McLouth, McLouth, Kan., $15,985. The bridge will be 800 ft. in length and 16 ft. wide.

ZEANDALE, KAN.—Bids are wanted by the township board until March 16 for the erection of stone abutments for a bridge in this township.

BOTTINEAU, N. DAK.—Bids are asked until April 1 for furnishing 32,000 ft. of bridge lumber, according to reports. N. P. Nordin, County Audr.

ST. JOSEPH, MO.—Bids are reported wanted until March 22 for constructing and repairing bridges and culverts. Theo. Steinacker, County Surv.

VINITA, IND. TER.—The United States Court has granted a franchise to W. E. Rowsey and Dr. McWilliams, of Miami, to build a toll bridge across the Neosho River opposite Miami. The new bridge will cost about $5,000.

CATHLAMET, WASH.—Bids are asked until April 1 for constructing a truss bridge in road district No. 3, Wahkiahum county, according to reports. Jesse Baker, Clk. Bd. County Comrs.

KALAMA, WASH.—Bids are asked until April 4 for constructing a bridge across a flat on Caples road. J. H. Wood, County Audr.

SNOHOMISH, WASH.—Bids are asked until March 25 for building a bridge over Woods Creek and repairing the French slough bridge, according to reports. W. M. Ross, Chn. Bd. County Comrs.

ASTORIA, ORE.—A contract has been let to Ferguson & Houston for constructing the Walluski River drawbridge, at $4,680.

COLUMBUS, NEV.—It is reported that the Union Pacific Ry. will soon commence the erection of a new double track street railway bridge over the Loup River, one mile west of here.

RATHDRUM, IDAHO.—The county clerk has been authorized to build a bridge across the St. Marias River at or near St. Marias.

BELLEVILLE, ONT.—Wm. R. Aylsworth, Belleville, informs us that the proposed bridge on the north boundary of this city is not likely to be built this year.

BLIND RIVER, ONT.—The government has been petitioned for a new bridge across the river at this place.

HUNTSVILLE, ONT.—A petition has been presented to the provincial government for an appropriation of $10,000 for constructing a bridge across the Muskoka River.

BUILDINGS.

LEWISTON, ME.—J. A. Jones, Cy. Engr., writes us that no site has yet been secured for the new public library building and no steps toward construction will be taken before one is selected.

BOSTON, MASS.—Bids are asked until March 23 for constructing a fireproof floor in pattern shop building No. 42 at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C.——Press reports state that W. J. Otis will erect a new office building at 6 Beacon St., to cost about $600,000.

NEW HAVEN, CONN.—The council is said to have chosen a site on Jewell St., for the proposed contageous hospital building, to cost about $50,000.

ALBANY, N. Y.—Superintendent Cantine has received the following bids for improvements to the almshouse buildings. Edward Ogden & Sons, Archs., 63 State St.: M. L. Ryder Bldg. Co., 96 Chestnut St., $41,471; Collins Bros., 953 Madison Ave., $44,155; Denniston & Dyer, $41,-992; A. Pasquini, Benson Bldg., $44,648; Feeney & Sheehan, 23 Elm St., $40,535; Cassidy & Gallagher, $41,000; Michael Waldbillig, 387 First St., $44,545; Peter Keeler, 464 Orange St., $42,360; John J. Kelly, 1125 Beaver St., $41,810; E. A. Walsh, 166 Madison Ave., $42,352; E. W. Martin Sons, $46,450.

BINGHAMTON, N. Y.—C. H. Webster, J. O. Dunning, John Hull, Jr, and others are said to have incorporated a company with a capital of $100,000, to erect a department store building.

BROOKLYN, N. Y.—Plans have been filed by L. Bonert, Sixth Ave. and Third St., for two 4-story brick flats, 32 × 95 ft., at Park Place, near Vanderbilt Ave., to cost about $44,000. T. Bennett, Arch., 198 53d St.; by W. H. Reynolds, 49th St. and New Utrecht Ave., for 17 3-story brick dwellings, each 19 × 45 ft., at Sterling Place, near Underhill Ave., to cost about $153,000. B. Driesler, Arch., 1432 Flatbush Ave.; by the Brooklyn Heights R. R. Co., 168 Montague St., for an addition of 2 stories to building at Montague and Clinton Sts., to cost about $36,000. R. L. Davis, Arch., 1419 Pacific St.——Bids are asked by the board of education, 59th St., and Park Ave., Manhattan, until March 18 for constructing a heating and ventilating apparatus for public school No. 131.——Press reports state that the Masons will form a company to erect a masonic temple near the Aurora Grata Cathedral in the neighborhood of Bedford and Gates Aves., to cost about $300,000.

ELLIS ISLAND, N. Y. H.—The following bids were received March 5 by James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C., for the electrical work at the U. S. Immigrant Station here: Item (1) hospital building; (2) hospital outbuilding; (3) surgeon's house; (4) bath and laundry building; (5) kitchen and restaurant building; (6) boiler house; (7) connecting corridor and covered way; (8) central lines; (9) out-door lighting: Hewitt & Wardon, Newburg, N. Y., (1) $3,900, (2) $550, 4 weeks; (3) $750, 4 weeks; work complete, $29,470; (4) $840, 5 weeks; (5) $770, 5 weeks; (6) $720, 6 weeks; (7) $1,290, 8 weeks; (8) $650, 10 weeks. Edward Heaton, New York, N. Y.: (1) $10,347, time, 90 days; (2) $390, 40 days; (3) $610, 60 days; (4) $786, 60 days; (5) $640, 60 days; (6) $856, 70 days; (7) $680, 60 days; (8) $14,791, 100 days; (9) $4,788, 90 days; work complete, $26,500, 1 year. D'Olier Engineering Co., Philadelphia, Pa., (1) $4,693, time, 50 days; (2) $547; (3) $493; (4) $1,247, 45 days; (5) $1,043, 40 days; (6) $9,142, 40 days; (7) $572, 30 days; (8) $13,776; 75 days; (9) $8,217, 60 days. Commercial Construction Co., work complete, $29,000. United Engineering & Contracting Co., New York: (1) $4,014, 30 days; (2) $307; (3) $350; (4) $722, 20 days; (5) $594, 20 days; (6) $600; (7) $481, 14 days; (8) $14,974, 40 days; (9) $6,739, 40 days; work complete, $27,341.95, time, 3 months. J. F. Buchanan, Philadelphia, Pa., (1) $3,150, 3 months; (2) $330, 2 months; (3) $480, 3 months; (4) $700, 3 months; (5) $570, 2 months; (6) $460, 2 months; (7) $460, 2 months; (8) $16,350, 5 months; (9) $9,250, 6 months. T. F. Pierce, New York: (1) $2,834, 30 days; (2) $268, 15 days; (3) $437; 15 days; (4) $693, 25 days; (5) $593, 25 days; (6) $588, 25 days; (7) $396, 20 days; (8) $13,561, 60 days; (9) $5,725, 60 days.

ITHACA, N. Y.—Cornell University has received a gift of $85,000 for erecting an addition to the Sibley College of Mechanical Engineering.

JOHNSTOWN, N. Y.—Andrew Carnegie has offered this city $20,000 for erecting a new public library building, according to reports. William T. Briggs, Pres. Bd. of Trade.

NEW YORK, N. Y.—The 3-story brick building, 40 × 300 ft., at Willis Ave., and 132d St., owned by the N. Y., N. H. & H. R. R. Co., was destroyed by fire March 10,; loss, about $60,000.——It is stated that John Wanamaker contemplates the erection of a new store building at Ninth St. and Broadway.——The Barney-Sheldon company, will, it is said, erect a new bachelor hotel building at Fifth Ave. and 34th St.——Reports state that Henry L. Einstein will erect a new 6-story building at 9 to 13 Spruce St., for the New York Press to cost about $500,000.——The department of parks has let the contract called Contract No. 2, for the new public library building at 42d St. and Fifth Ave., to Herman Probst, 1180 Broadway, at $36,950.——It is stated that St. James Presbyterian Church, 213 West 32d St., contemplates the erection of a new church building to cost about $50,000. Address Constant A. Andrews, 633 Madison Ave.——Z. K. Berlin, 349 East 17th St., writes us that he is now receiving bids for erecting a 6-story brick semi-fireproof flat, 42 × 82 ft., at 349 East 17th St., to cost about $35,000. Schneider & Herter, Archs., Bible House.

NEW YORK, N. Y.—Plans have been filed by Elias Kempner, 55 East 61st St., for two 6-story brick flats, 25 × 90 ft., at 533 and 535 East 11th St., to cost about $46,000, George F. Pelham, Arch., 503 Fifth Ave.; by Osias Kanner, 530 Broadway, for a 7-story brick flat, 27 × 88 ft., at 42 Baxter St., to cost about $30,000, George F. Pelham, Arch.; by Elias Kempner, for four 6-story brick flats, 25 × 86 ft., at 222 to 228 East 40th St., to cost about $92,000, George F. Pelham, Arch.; by Peter Wagner, 215 West 106th St., for a 7-story brick apartment house, 101 × 95 ft., at Broadway and 112th St., to cost about $190,000, George F. Pelham, Arch.; by Osias Kanner, 530 Broadway, for a 7-story brick flat, 28 × 105 ft., at 125 Second Ave., to cost about $35,000, George F. Pelham, Arch.; by Leopold Kaufmann, for two 7-story brick flats, 45 and 30 × 76 ft., at 54 and 56 Elizabeth St., to cost about $100,000, and for two 7-story brick flats, 27 × 52 ft. and 30 × 64 ft., at Second Ave. and Tenth St., to cost about $105,000, Schneider & Herter, Archs., Bible House; by Conron Bros., 11 Bloomfield St., for a 3-story brick warehouse, at 14th St. and 10th Ave., irregular, to cost about $100,000, John E. Kirby, Arch., 722 Tremont Ave.; by Louise M. Mitchell, for a 6-story brick storage building, 52 × 105 ft., at 231 Bowery, to cost about $61,100, Charles Werner, Arch., 26 Fourth St., Brooklyn; by the Central Building Improvement & Investment Co., 440 Washington St., for a 7-story brick flat, 123 × 100 ft., at Edgecombe Ave., near 147th St., to cost about $230,000, Henri Fouchaux, Arch., Broadway, near 162d St.; by Charles F. Rogers, 25 West 53d St., for a 12-story brick hotel building, at Seventh Ave., near 55th St., to cost about $700,000, Mark Rafalsky, Arch., 135 Broadway; by Lippman & Gold, 58 Rutgers St., for three 6-story brick flats, 25 × 85 ft., at 129 to 133 Monroe St., to cost about $80,000, Horenburger & Straub, Archs., 122 Bowery; by W. C. Hunter, 180 St. Nicholas Ave., for a 6-story brick flat, 75 × 89 ft., at 123d St., near Amsterdam Ave., to cost about $100,000, Ernest Ruehl, Arch., 902 East 61st St.; by Samuel Morris, 24 Bayard St., for a 6-story brick flat, 47 × 65 ft., at 22 Bayard St., to cost about $40,000, Schneider & Herter, Archs.; by Annie R. Warren, Deerfield, Mass., for a 6-story brick sanitarium, 40 × 79 ft., at 154 East 70th St., to cost about $100,-000, Smith & Biscoe, Archs., 9 Park St., Boston, Mass., Andrew J. Robinson, Builder, 123 East 23d St.; by Leopold Kahn Co., 93 St. Nicholas Ave., for a 7-story brick flat, 50 × 57 ft., at 373 Manhattan Ave., to cost about $90,000, John E. Scharsmith, Arch., 477 West 144th St.; by Vincent P. Travers, 57 West 74th St., for a 6-story brick factory building, 50 × 100 ft., at 542 West 52d St., to cost about $35,000, John B. Brazier, Arch., 106 East 23d St.; by Edmund Coffin, 34 Pine St., for two 5-story brick dwellings, 50 × 25 × 20 ft., at West End Ave. and 71st St., to cost about $40,000, Hill & Stout, Archs, 1122 Broadway; by A. Silverson, 236 East 61st St., for a 7-story brick flat, 27 × 104 ft., at Montgomery St. and East Broadway, to cost about $85,000, M. Bernstein, Arch., 245 Broadway; by Phil and Meyer Horowitz, 51 Greene St., for a 7-story brick flat, 60 × 75 ft., at Henry and Jefferson Sts., to cost about $85,000, M. Bernstein, Arch.; by Robert H. Spaulding, 1123 Broadway, for a 12-story brick hotel building, 86 × 89 ft., at 43 to 49 West 35th St., to cost about $550,000, Henry B. Mullikan, Arch., 289 Fourth Ave.; by the John Eichler Brewing Co., 159th St. and Third Ave., for five 5-story brick flats, 25 × 95 ft. and 26 × 80 ft., at Third Ave. and 183d St., to cost about $97,000, M. J. Garvin, Arch., 3307 Third Ave.; by the Presbyterian Hospital, for an 8-story brick nurses' dwelling, 104 × 102 ft., at 31 to 37 East 71st St., to cost about $300,000, Jas. B. Baker, Arch., 156 Fifth Ave.; by Louis Levey, 54 East 48th St., for two 6-story brick flats, 25 × 40 × 86 ft., at 114th St., near First Ave., to cost about $60,000, M. Bernstein, Arch.; by John Meelvey, 412 West 47th St., for a 5-story brick flat, 25 × 95 ft., at Second Ave. and 40th St., to cost about $30,000, Thom & Wilson, Archs., 111 Fifth Ave.; by Rosenberg & Feinberg, 458 Grand St., for a 6-story brick flat, 45 × 82 ft., at 346 and 348 East 17th St., to cost about $45,000, and for a 6-story brick flat, 44 × 53 ft., at 145 and 147 Chrystie St., to cost about $35,000, Sass & Smallheiser, Archs., 23 Park Row; by Leopold Kaufmann, for two 6-story brick flats, 30 × 80 ft., at 204 to 208 East 21st St., [illegible] cost about $70,000, Schneider & Herter, Archs.; by Kir[illegible] La Shelle, 1402 Broadway, for a 5-story brick theat[illegible] and studio building, 20 × 80 ft. and 77 × 100 ft., at 1564 [illegible]dway, to cost about $175,000, J. B. McElfatrick & Son, [illegible]chs., 1402 Broadway; by Inga M. Olsen, 2302 Souther[illegible] Boulevard, for a 6-story brick loft building, 75 × 85 ft. [illegible] 13 to 17 Crosby St., to cost about $150,000, C. A. F[illegible]n, Arch., 406 West 52d St.; by William Wicke & Co., [illegible] East 68th St., for a 6-story brick factory building, 90 [illegible] 31 ft., at First Ave. and 31st St., to cost about $230,[illegible] for a 6-story brick factory building, 44 × 74 ft., at [illegible] St., near First Ave., to cost about $42,000, and for a [illegible]ory brick factory building, 75 × 85 ft., at 32d St., near [illegible] Ave., to cost about $60,000, Julius Kastner, Arch., 11[illegible] Broadway; by Adolph Mandel, 157 Rivington St., for two [illegible]ory brick flats, 33 × 81 ft., at 210 to 214 East 20th St., [illegible] cost about $70,000, Charles B. Meyer, Arch., 1 Union S[illegible]re West; by James A. Campbell, Second Ave. and 83[illegible] Brooklyn, for a 7-story brick loft building, 25 × [illegible] ft., at 27 East Tenth St., to cost about $50,000, Frederi[illegible] C. Zobel, Arch., 165 Broadway; by Herbert H. True, 22[illegible] Broadway, for a 6-story brick hotel building, 50 × 101 ft., [illegible] 38 West 57th St., to cost about $185,000, Clarence [illegible], Arch., 2291 Broadway; by Louis Kresner, 1 Frankl[illegible] St., for a 6-story brick flat, 40 × 46 ft., at 109 Attorney [illegible], to cost about $35,000, Horenburger & Straub, Archs., [illegible] Bowery.

NEW YORK, N. Y.—Bids are asked by the board of education, 59th St. and Park Ave., until March 2[illegible] for erecting public school No. 186 on 145th St. and Am[illegible]dam Ave.

POUGHKEEPSIE, N. Y.—John D. Rockefeller has given $110,000 to Vassar College to erect a new dormitory.

ROCHESTER, N. Y.—The J. W. Thorne Co., of Philadelphia, Pa., will erect a new warehouse at Main St., East and the Culver Road in Brighton; to cost about $350,000.

ATLANTIC CITY, N. J.—Press reports state that the Morris Guards will erect a new armory on South New York Ave.

BAYONNE, N. J.—It is stated that Company I, Fourth Regt., N. G. N. J., will erect a new armory on 26th St., near Ave. D., Jas. R. Gatchel, Capt.

CAMDEN, N. J.—Sam'l Conger, Masonic Temple Bldg., has completed plans, etc., for a 5-story brick and stone house at 6th and Nickle Sts., for Geo. Hall.

GETTYSBURG, PA.—It is stated that the county commissioners have decided to erect a new courthouse here.

GLADWYNE, PA.—The Lower Merion School Bd. has directed the architect to revise his plans for the new school house. The original being too costly.

NEW BRIGHTON, PA.—Bids are asked until April 17 for furnishing the heating and ventilating apparatus for the U. S. building here. James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

PHILADELPHIA, PA.—Bids are asked until March 2[illegible] for alterations to building No. 3 at the Schuylkill Arsenal. Col. J. V. Furey, Asst. Q. M. Gen., 1428 Arch St.——Frank R. Watson, 1208 Chestnut St., writes us that no contracts have yet been let for the 12-story fireproof office building, 50 × 230 ft., at 1424 Chestnut St., for G. W. Powell, and William Gorman.——We are informed that no contracts have been let for the proposed 5-story brick warehouse, 53 × 73 ft. at 237 Arch St., for the Bergen Bros. Co., contract for machinery, etc., will be let after building has been started. Heacock & Hokanson, Archs., 931 Chestnut St.——G. W. & W. D. Hewett, Bullitt Bldg., are said to have complete plans for a 7-story brick warehouse at Front and Chestnut Sts., for the Merchants' Warehousing Co.——The contract for erecting a 6-story building at 511 to 515 Commerce St., for Charles M. Biddle, has been let to John R. Wiggins, 1218 Filbert St., at $65,000. G. W. & W. D. Hewitt, Archs.

PITTSBURG, PA.—Edward Stotz, Monongahela National Bank Bldg., is said to have completed plans for the proposed new Peebles school house, at Second Ave., and Wood St., Hazlewood, to cost about $60,000.——It is stated that Wm. T. Bradberry, of Anschutz, Bradberry & Co., will erect a 4-story brick apartment house at Race and Ellsworth Sts., to cost about $50,000.——W. A. Eurich will, it is said, erect an apartment house at North Ave., and Palo Alto St., to cost about $50,000.——Plans have been completed for the new public school building on Second Ave., near Elizabeth St., in the 23d Ward, to cost about $50,000. Bids will be asked at once.——Reports state that C. H. Kerr, 2565 Fifth Ave., will erect a new 7-story brick apartment house, to cost about $50,000.

SMETHPORT, PA.—Bids are asked until March 20 for erecting a new school house. F. D. Gallup, Pres.

WILLIAMSPORT, PA.—Edgar V. Seeler, 328 Chestnut St., Philadelphia, has completed plans for the proposed new J. V. Brown Memorial Library building at Fourth and State Sts., to cost about $200,000.

DELAWARE CITY, DEL.—Bids are asked until March 23 for plumbing in two barracks at Fort Dupont, Del., as stated in our advertising columns. Address Constructing Quartermaster.

ANNAPOLIS, MD.—Baldwin & Pennington, Archs., 44 South St., Baltimore, write us that plans, etc., for the proposed new Court of Appeals building here, will not be ready for three months.

WASHINGTON, D. C.—The Warren W. Briggs Heating & Ventilating Co., 1416 Pennsylvania Ave., submitted the following lowest bids to M. T. Endicott, Chief Bureau Yards and Docks, Navy Dept., March 2, for a hot water heating system in the office building at the navy yard: $6,779 for the work complete; $3,668 for work in shop and office building only and $6,699 same as item No. 1 installing material for boiler house in south end of shop wing of main building on the first floor.

AMHERST, VA.—Press reports state that a new school building will be erected by the Sweet Briar Institute.

RICHMOND, VA.—Andrew Carnegie has offered this city $100,000 to erect a new public library building.

MIDDLEBOURNE, W. VA.—It is stated that the county commissioners have decided to erect a new court house, to cost about $100,000.

FORT FREMONT, S. C.—Bids are asked until March 28 for constructing a frame workshop. Stanley D. Embrick, Q. M.

ATHENS, GA.—We are informed that G. L. Norman, Equitable Bldg., Atlanta, will prepare plans for the proposed 3-story dormitory on the campus, to cost about $20,000. A. L. Hull, Secy.

ATLANTA, GA.—Eiseman Bros. will, it is said, erect a 6-story brick and steel business building on Whitehall St., to cost about $60,000. W. T. Downing, Arch., 702 Equitable Bldg.

NEW ORLEANS, LA.—Bids are asked until April 1 for erecting a building for female trained nurses in the hospital grounds. Edwin Marks, Secy.

JACKSON, TENN.—Andrew Carnegie has offered this city $25,000 for erecting a new public library building.

ASHTABULA, O.—Bids are asked until March 24 for erecting a new building at the Ashtabula county infirmary. Thayer & Wilson, Archs.

CLEVELAND, O.—E. E. Smith, 44 Euclid Ave., is said to have prepared plans for a new apartment house for J. F. Burgess, James W. Moore and A. R. Shepheard, to cost about $75,000, and also for two apartment houses on Genesee St., for the Colonial Realty Co., to cost about $150,000.

ASHTABULA, O.—Andrew Carnegie has offered this city $[illegible] for erecting a public library building.

CINCINNATI, O.—It is stated that James W. McLaughlin estimates the cost of improving the courthouse at $235,[illegible].——J. B. McElfatrick & Son, 1402 Broadway, New York, are said to be preparing plans for rebuilding the Grand Opera House, at a cost of about $80,000.

NORWOOD, O.—Fugman & Ulrich, Archs., 1634 Williamson Bldg., Cleveland, write us that plans will be ready about April 1 for the proposed new church building, 140 × 60 ft., here, for St. Elizabeth R. C. Congregation, to cost about $[illegible],000.

INDIANAPOLIS, IND.—It is stated that Herman Munk, of Connersville, and James E. Roberts, of this city, will erect an apartment house, 125 × 85 ft., at Michigan and Delaware Aves., to cost about $70,000.

MARION, IND.—Andrew Carnegie has offered to give this city $20,000 for erecting a new public library building.

CHICAGO, ILL.—W. J. Brinkmann, Arch., 86 Metropolitan Block, writes us that the proposed new school at Exchange Ave., near 87th St., for the Church of the Immaculate Conception will be fireproof, have steam heating and electric lights and cost about $60,000.——Pond & Pond, Steinway Hall, are said to have prepared plans for a new 6-story brick building, 50 × 110 ft., at Wells and Illinois Sts., for Henry T. Gardner, to cost about $40,000.——Holabird & Roache, 1618 Monadnock Bldg., have prepared plans for a 3-story brick addition to the building at Dearborn and 29th Sts., for the Ayer Estate, of Lowell, Mass., to cost about $30,000.——Huehl & Schmid, 163 Randolph St., are said to have prepared plans for a 6-story brick warehouse, 90 × 90 ft., at Fulton and Desplaines Sts., to cost about $50,000, for Jacob Birk.

GALESBURG, ILL.—Bids are asked, according to reports, by the City Clerk, until March 25 for erecting the new Lincoln School house at East North and Pearl Sts., in the Second Ward. William Wolf, Arch.

LINCOLN, ILL.—The council has received an offer of $25,000 from Andrew Carnegie for erecting a new public library building.

SPRINGFIELD, ILL.—Andrew Carnegie has offered this city $75,000 for erecting a new public library building.

MILWAUKEE, WIS.—It is stated that Samuel Marshall will alter his building at Wisconsin St. and Broadway, to cost about $40,000.

OSHKOSH, WIS.—It is stated that St. Mary's hospital will erect a new building to cost about $50,000. Dr. C. W. Oviatt, House Surgeon.

SHEBOYGAN, WIS.—Andrew Carnegie has offered this city $25,000 for erecting a new public library building.

WAUPACA, WIS.—Bids are asked until March 22 for installing the plumbing, heating apparatus and electric wiring in the asylum for the insane at Weyauwega. E. H. Palmer, Secy.

CLINTON, IA.—Bids are asked until April 2 for constructure (except heating apparatus, electric wiring and conduits) the U. S. building here. James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

DAVENPORT, IA.—Andrew Carnegie has offered to give this city $75,000 for erecting a new public library building.

OMAHA, NEB.—Bids are asked until March 30 for constructing complete, a brick hospital building at Ft. Robinson. F. H. Hathaway, Ch. Q. M.

BEAUMONT, TEX.—Bids are asked until March 18 for erecting a 5-story brick office building for V. Weiss. S. L. McAdoo, Arch., San Antonio.

GATESVILLE, TEX.—It is stated that the city has had plans prepared for a new school house, to cost about $20,000.

DENVER, COLO.—Frank L. Bishop, Chn. County Comrs., writes us that the proposed hall of records building is only being talked of at present. No plans nave yet been secured and it will probably be a couple of months before definite steps are taken.

SANTA FE, N. MEX.—The Y. M. C. A. has purchased land on which it is proposed to erect a building to cost about $50,000.

BREMERTON, WASH.—We are informed that the following bids were received March 9 by M. T. Endicott, Chief Bureau Yards and Docks, Navy Dept., Washington, D. C., for constructing two magazine buildings at the Puget Sound Naval Station. W. R. Nichols, P. O. Box 791, Tacoma, $45,800; Congress Construction Co., Masonic Temple, Chicago, Ill., $48,692; the Puget Sound Bridge & Dredging Co., Pioneer Bldg., Seattle, $54,852; Hastie & Dougan, Bernice Bldg., Tacoma, $47,025; M. J. Carkeek, Seattle, $51,750. The Puget Sound Bridge & Dredging Co., submitted the only bid at $24,000 for constructing about 141½ ft. of wing wall and wharf abutment with $98 per lin. ft. for extra work.

SEATTLE, WASH.—It is stated that the Northern Pacific R. R. Co. proposes to build a new passenger station here to cost about $1,000,000.

SEATTLE, WASH.—Spaulding & Russel, Bernice Bldg., Tacoma, are said to have prepared plans for a new apartment house at Seneca St. and Summit Ave., to cost about $55,000.

LOS ANGELES, CAL.—It is stated that the Y. M. C. A. contemplates the erection of a new building on Broadway and West Second St., to cost about $50,000.——Morgan & Walls, 232 North Main St., are said to be preparing plans for a 5-story office building on First St., for John H. Jones, to cost about $60,000.

MARTINEZ, CAL.—The plans of William Mooser & Sons, 14 Grant Ave., San Francisco, and James Seadler, 1018 Eighth St., Sacramento, are said to have been accepted for the proposed new jail here, to cost about $175,000.

MERCED, CAL.—Bids are asked by the board of trustees of the Snelling School district for tearing down and rebuilding the schoolhouse.

OAKLAND, CAL.—Bids are asked until April 6 for the construction (except heating apparatus, electric wiring and conduits) of the new U. S. post office building here. James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

SAN JOSE, CAL.—Andrew Carnegie has offered this city $50,000 for erecting a new public library building.

SALT LAKE CITY, UTAH.—C. M. Newhausen, 528 Dooly Block, has prepared plans for the proposed All Hollouse College building, at 13th East and Ninth South Sts., to cost about $250,000. Thomas J. Larkin, Pres.

MONTREAL, QUE.—The citizens will vote on a by-law authorizing appropriations of $400,000 for the Bousecours market, $100,000 for new hospitals and $100,000 for new fire stations.

WATER-WORKS.

ASHLAND, ME.—W. B. Getchell, Augusta, Me., has completed surveys for works.

BANGOR, ME.—The water board, it is stated, has recommended the purchase of a new 6,000,000-gallon pump.

EVERETT, MASS.—Bids are asked until April 3 for furnishing water pipe, tees, bends, plugs, etc., as described in our advertising columns. M. McNamara, Chn. Bd. Pub. Wks.

SAUGUS, MASS.—The question of making a new contract with Lynn for a water supply or of entering the metropolitan system is being considered. Address J. W. Hall and H. B. Pratt.

WHITMAN, MASS.—B. C. Reed, E. C. Howard and Col. B. S. Atwood have been appointed a committee to confer with the officials of Rockland and Abington with a view to securing a water supply from Big Sandy Pond.

WARREN, R. I.—The Warren & Bristol Water-Works Co. has withdrawn its offer to sell its works to the city.

NEW LONDON, CONN.—The water department will probably purchase an auxiliary pump at once. W. H. Richards, Supt.

NEW PRESTON, CONN.—The Pinnacle Springs Water Co. has been organized by N. B. Mead, of Greenwich, Conn., to build works at the springs and to bottle and sell the water.

NORFOLK, CONN.—The question of making an appropriation to carry on experiments for locating a new pumping station is being considered. Address City Clerk J. B. Hurlbutt, Councilman Leonard and Mayor Glover.

SOUTHINGTON, CONN.—A bill is before the legislature authorizing this place to purchase the works.

BINGHAMTON, N. Y.—Dr. A. R. Leeds, of Stevens Institute of Technology, Hoboken, N. J., has been engaged to advise the commissioners on the best methods of securing a pure water supply.

FONDA, N. Y.—Bids are asked until April 8 for furnishing the materials and for constructing works for the Fonda Water Works Co. Francis K. Baxter, Engr., Utica, N. Y.; A. H. Burtch, Pres.

HAVERSTRAW, N. Y.—John D. Reynolds, Pres. American Equipment Co., Wall St., New York, has been appointed receiver for the Haverstraw, Stony Point and West Haverstraw Water Companies.

HEMPSTEAD (L. I.), N. Y.—An election will be held March 19 to vote on the question of issuing $45,000 in bonds for the purchase of the works of the Hempstead Water Co. Address President P. B. Bromfield; Geo. Payntar, Trustee.

HUDSON, N. Y.—Recorder Kennedy has protested against the appropriation of $2,000 for engaging an engineer to prepare plants, etc., for extending the works and has urged the council to take steps to put in water meters. W. S. Hallenbeck, Secy. Bd. Pub. Wks.

ITHACA, N. Y.—The question of securing a water supply from Freeville for Cornell Heights is being considered by E. C. Wyckoff and others; estimated cost, about $50,000.

LITTLE VALLEY, N. Y.—Reports state that this place will spend $2,300 in improving its works.

NIAGARA FALLS, N. Y.—The board of public works will ask the council to engage an expert to investigate the matter of increasing the water pressure of the works of the Niagara Falls Water Works Co. Gaton Swan, Supt.

OGDENSBURG, N. Y.—A bill is before the legislature authorizing this city to issue $16,000 in bonds for extending the works.

ONEIDA, N. Y.—A. E. Loomis, Supt. Water Dept., has recommended that $10,000 in bonds be issued for a new reservoir.

OYSTER BAY (L. I.), N. Y.—The question of erecting reservoirs for an increased water supply is being considered.

RENSSELAER, N. Y.—The Rensselaer Pure Water Co. has offered to build gravity works for this place. Jos. L. Dunn, of Wilkesbarre, Pa.; Wm. D. Boyer and Cyrus D. Jones, of Scranton, Pa., are interested.

ANGLESEA, N. J.—Bids are asked until March 27 for furnishing the materials and for constructing the works for the Five-Mile Beach Water Co., as stated in our advertising columns. F. G. Rachor, Res. Engr.; Wm. H. Boardman, Engr.

ATLANTIC CITY, N. J.—The contract for a 3,000,000-gallon pumping engine has been let to the d'Auria Pumping Engine Co., of Philadelphia. The bids were published in our issue of Feb. 21.

BELLEVILLE, N. J.—The question of installing water meters will be considered on March 20. J. T. Boylan, Chn. Com.

BLOOMFIELD, N. J.—The council has refused to grant a franchise to the Eagle Rock Water Co., in which G. C. Seibert is interested.

PITMAN, N. J.—We are informed that work will be begun on the proposed works for the Pitman Water Co., noted last week, as soon as the plans are completed. Elmer H. Crane, Pres.; H. S. Irons, Vice-Pres.; H. E. Trotman, Secy., 107 and 109 North 3d St., Philadelphia, Pa.; Jas. D. Kelly, Treas.

ASHLAND, PA.—The Philadelphia & Reading Coal & Iron Co., it is stated, will soon let contracts for building two reservoirs above Shenandoah with a capacity of 70,000,000 gallons. W. M. Hunter, Ch. Engr., Philadelphia; J. S. Ward, Res. Engr., Williamsport, Pa.

EVERSON, PA.—The Everson Water Co. has been organized to build works, which will include a reservoir at Detwiler's Mills. W. W. Staub, J. B. Townsend and W. D. Chapman are interested.

GLEN ROCK, PA.—W. H. Wolf writes us that nothing definite can be given out regarding the proposed works, but that it is expected to soon have matters in shape; estimated cost, $18,000.

WATERFORD, PA.—H. Rice writes us that the matter of building works is only being considered and before anything definite can be done the question of issuing bonds will have to be voted upon.

NEWCASTLE, DEL.—A bill has passed the legislature authorizing this place to issue $60,000 in bonds for works and an electric plant.

OAKLAND, MD.—An election was held this week to vote on the question of works and a sewerage system is being considered. Thos. Little, King Delawder and Andrew Helbig may be addressed.

BARTON HEIGHTS, VA.—The Hollins Internal Improvement Co. has been incorporated with a capital of $25,000 to build works, an electric plant, etc., by A. L. Smith, T. M. Elamand and J. A. H. Junker.

LYNCHBURG, VA.—J. G. Payne, Chn. Water Com., writes us that the city is considering the question of an addition to the water supply, and either a sand or mechanical filter. The plans are not fully developed, and may not be for several months.

MOUNT JACKSON, VA.—The question of building works or of purchasing only fire department apparatus is being considered.

CHARLESTON, S. C.—Reports state that the Charleston Water & Light Co. is preparing to proceed soon with the construction of new works, the water supply to be secured from the Edisto River. W. C. Miller, Solicitor C. W. & L. Co.

ATLANTA, GA.—An election will be held March 20 to vote on the question of issuing $200,000 in bonds for new mains and better equipment for the works. L. Mims, Mayor; W. J. Campbell, Clk. Council.

LUMPKIN, GA.—An election will be held April 3 to vote on the question of issuing $10,000 of 4% bonds for works.

CHIPLEY, FLA.—An election will be held this month to vote on the question of issuing $15,000 for works and a school building, the water supply to be secured from artesian wells. Thos. Wattes, Jr., Mayor.

PHOENIX, ALA.—This place has been authorized to issue bonds for works and a fire department.

TALLADEGA, ALA.—W. D. Link, Engr., writes us that the city on Feb. 26 purchased the works of the Talladega Light & Water Co., and that the cost of extensions will not exceed $2,000.

HIGHLANDS, KY.—We are informed that a local company has been organized to build works for this place. About five or six miles of pipe will probably be required. Address W. H. Band, 1 Grand Ave., Fort Thomas, Ky.

ALLIANCE, O.—Bids are asked by the board of trustees until March 28 for furnishing and erecting a 4,000,000-gallon pumping engine.

BEREA, O.—The question of issuing bonds for improving and extending the works and building an electric plant will be voted upon April 1.

CINCINNATI, O.—Bids are asked until April 3 for furnishing water pipe, specials and loam castings. Geo. F. Holmes, Clk. Bd. Pub. Service.

CINCINNATI, O.—Bids will be asked at once by Clerk Roth of the water-works trustees, for furnishing six pumping engines.

COSHOCTON, O.—It is proposed to extend the mains to Roscoe. Address Superintendent Raiff.

WELLSVILLE, O.—We are informed that the city contemplates either remodeling the present works, which is a pumping system, or to install a new gravity works, using the water shed of Little Yellow Creek for supply, erecting a dam or series of dams from 3 to 4 miles from the city for storage. The natural conditions are very favorable for a gravity system. The town has voted $75,000 for this work.

NEW ALBANY, IND.—The New Albany Water-Works Co. proposes to make improvements at once to the works. A. M. Barron and Frank B. Sherman, of Chicago; R. K. Brown, of New Albany, and C. H. Quinn, of Louisville, Ky., are interested.

DETROIT, MICH.—Max Bartholomew has been awarded the contract at $69,021 for erecting an addition to the pumping station.

CARLINVILLE, ILL.—The Chicago & Alton Ry. Co. has made surveys for a 35,000,000-gallon reservoir about 2½ miles below this place. H. C. Draper, Ch. Engr., Chicago.

CHAMPAIGN, ILL.—Reports state that plans are being prepared for a new reservoir.

GROSSDALE, ILL.—The question of building works is again being considered.

OAK PARK, ILL.—The question of municipal works is reported as being considered.

RIVERSIDE, ILL.—The village board has approved plans for the works, according to reports.

ALGOMA, WIS.—H. D. Hallett, of Aurora, Ill., has completed plans and specifications for works for this place and Kewaunee, Wis., according to reports.

BARABOO, WIS.—The council has decided not to buy the works for $150,000, and it is intended to let the franchise expire before further considering the question.

RACINE, WIS.—It is stated that the Racine Water Co. has filed a mortgage for $800,000 for improving the works and paying the past debts.

MOUNT AUBURN, IA.—This place is raising funds for the proposed works.

BLOOMFIELD, NEB.—It is proposed to extend the works built last fall. Arnold C. Koenig, Engr., Grand Island, Neb.; W. D. Funk, Clk.

GREAT FALLS, MONT.—Andrew Rinker, Civil Engr. and Pres. Water Comrs., writes us that it is proposed to extend about 10,000 ft. the 6 and 10-in. mains. Bonds will have to be authorized before work can be done.

ST. LOUIS, MO.—The Livestone Water Co. has been incorporated with a capital of $50,000 by J. S. Rothwell, W. H. Grayson and H. B. Beaty.

MENA, ARK.—John E. McLelland, Mayor, writes us that O. J. Gorman, who was granted a franchise some weeks ago, has failed to comply with the terms, so the city is still without works. The council is open for bids for the purchase of the franchise, and wishes to communicate at once with parties doing such work. The city will take 36 hydrants at $50 a year and the [illegible]y company 250,000 gallons a day. Pop., 5,000. L. S. Watson, Recdr.; W. Townsend, N. A. Gann and S. S. Carder are in the council.

DALLAS, TEX.—The Abendroth & Root Mfg. Co., Dallas, has secured the contract for pipe laying for the improvements to the works.

LULING, TEX.—Bids are asked until March 25 for a 20 × 60 steel standpipe, etc., for the Luling Water-Works Co. John Orchard, Supt.

LONGMONT, COLO.—The committee has reported that the proposed works for this place will cost about $121,000. Geo. W. Brown, Geo. H. Stonex and M. E. Sullivan.

BAKERSFIELD, CAL.—The Hazelton Water Co. has been incorporated with a capital of $200,000 by Soloman Jewett, C. N. Real and Windell Easton, to build works to furnish water to the Sunset district.

FRESNO, CAL.—The Coast Range Water Co. has been incorporated with a capital of $10,000 by H. H. Welsh, W. W. Philips and H. J. Bullard.

OAKLAND, CAL.—M. K. Miller is reported to have completed plans for works. The question of issuing bonds will probably soon be voted upon.

YREKA, CAL.—Reports state that W. T. Shurtleff has purchased the Scheld works and will spend about $25,000 on improvements.

BROCKVILLE, ONT.—This city has voted to issue $50,000 in bonds for extending the mains, new machinery, etc.

IROQUOIS, ONT.—An election will be held March 23 to vote on the question of issuing $20,000 in bonds for the purchase and extension of the works. P. Keefe and R. H. Buchanan are on the committee.

SEWERAGE.

PITTSFIELD, MASS.—Bids are asked by the board of public works until April 2 for furnishing about 11,450 ft. of 24-in. cast-iron sewer pipe and ten tons of specials, as stated in our advertising columns. L. B. Cummings, Clk.

PLYMOUTH, MASS.—The council has appropriated $18,000 for sewer construction for the coming year.

TAUNTON, MASS.—We are informed that if the council appropriates $100,000 for sewer work a section of the 36-in. trunk sewer will be built.

HARTFORD, CONN.—The board of street commissioners estimates the cost of constructing the proposed sewer in Orange St. at $6,953.

SOUTHINGTON, CONN.—W. T. Foley, Warden, writes us that this city will not do anything toward constructing a system this year.

BINGHAMTON, N. Y.—We are informed that nothing has as yet been done toward the proposed sewers at the state hospital. C. E. Monroe, Cy. Engr.

NEW CANAAN, CONN.—H. L. Comstock, Warden, writes us that this borough has simply applied to the legislature for permission to construct a system. No contracts have been let.

ALBANY, N. Y.—Walter Melius, Cy. Engr., writes us that an ordinance has been passed authorizing the construction of a sewer in Eagle St. Bids will be asked as soon as plans and specifications are completed.

BROCKPORT, N. Y.—The council has applied to the legislature for permission to issue $50,000 in bonds for constructing a system.

EAST HAMPTON, N. Y.—It is stated that this town will build a disposal plant to cost about $30,000.

LESTERSHIRE, N. Y.—W. H. Hill writes us that as yet this city has not voted on either the question of constructing a system or a new reservoir.

HADDONFIELD, N. J.—Reports state that the council has accepted plans for the proposed system.

HOBOKEN, N. J.—Tivy & Smith, Cy. Surveyors, write us that legislative authority is being asked to issue $300,000 in yearly issues of $100,000 for building main outfall sewers, etc.

NEWARK, N. J.—Ernest Adam, Engr. Street and Sewer Dept., writes us that bids will be asked in a couple of weeks for the construction of the trunk sewer through Market St., etc., requiring about 4,765 ft. of 58 to 81-in. brick sewer, with from 12 to 26 ft. cut, to cost about $98,000.

MEADVILLE, PA.—Bids are asked until March 20 for constructing about 2,375 ft. of 6 to 20-in. sewers and 6,230 sq. yds. of brick pavement, with 4,100 ft. of curbing, on Liberty St., as stated in our advertising columns. A. C. Pardee, Cy. Clk.; W. A. Doane, Cy. Engr.

PHILADELPHIA, Pa.—The council's survey committee has made the following sewer appropriations: Montgomery Ave. relief and extension on Columbia Ave. to 20th St., $10,000; Roschill and Tioga Sts., $35,000; York St., $60,000; Shunk St. extension, $30,000; Thomas Run extension to Cobb's Creek, $35,000; Merion Creek extension to city line, $5,000; Pratt St., $20,000; Cohocksink relief extension, $35,000; Thomas Run extension on Conestoga St., $30,000; extension of the each branch of Wingohocking Creek to Anderson St., $20,000; Orthodox St. extension, $20,000.

WASHINGTON, D. C.—Congress has made the following appropriations for sewer work: $406,000 for constructing sewers, $375,000 for a sewage disposal pumping station with authority to contract for completing pumps and station at a cost not to exceed $750,000.

WAYNESVILLE, N. C.—The legislature has passed a bill authorizing this city to sell bonds for constructing a system and water-works.

WILMINGTON, N. C.—It is stated that the Wilmington Sewerage Co. will increase its capital and extend and improve its system. W. P. Toon, Pres.; John D. Bellamy, Jr., Secy.

COLUMBUS, GA.—R. S. Johnson, Supt. Pub. Wks., informs us that no further steps will be taken in the matter of the proposed sewer system until after the bond election on May 9.

DECATUR, ALA.—The legislature has passed a bill authorizing this city to issue bonds for constructing a system.

OPELIKA, ALA.—Reports state that the council has been authorized to issue bonds for constructing a system.

MT. STERLING, KY.—The Mayor writes us that the question of constructing a system will be voted on at the November elections. Until then no steps can be taken further than to make surveys and estimates of cost.

BELLEFONTAINE, O.—The council has passed an ordinance declaring it necessary to construct a system. J. J. P. Costin, Pres. Council; M. J. Nichols, Cy. Clk.

CLEVELAND, O.—The board of control has received the following lowest bids for sewer construction: William E. Sage, Secy.: Walnut St., J. Connelly & Son, $2,268; Broad St., A. F. Helm, $2,359; Buckeye St., Wm. Lehmann, $1,870; Capital St., John Potts & Co., $962; Ambler St., Reaugh Construction Co., $2,373; B St., $2,068; Barber Ave., Beers & Doolittle, $1,034; Bissell St., C. T. McCracken, $1,314; Alpine St., Reaugh Construction Co., $2,574; Chatham St., Christian Burkhardt, $1,640; Bridgeview St., William Lehmann, $1,946; Bush Ave., William Lehmann, $1,738; Crumb St., William Lehmann, $1,002; Dercum St., C. T. McCracken & Co., $836; Fruitland Ave., Christian Burkhardt, $4,211; Muirson St., Campbell Bros., $5,653; Beacon St., W. J. Townsend, $1,558.

SIDNEY, O.—The council has engaged Riggs & Sherman, The Nasby, Toledo, to make surveys and prepare plans for the proposed system.

SPRINGFIELD, O.—Engineer Sharon estimates the cost of constructing about 4,815 ft. of 15 to 25-in. pipe sewer in Main St. at $18,584.

XENIA, O.—The council has let the contract for constructing the system here to A. F. Shorer, Builders' Exchange, Indianapolis, Ind., at $20,155. W. F. Townsend & Co., of Cleveland, was next lowest, at $22,029. John Williams & Co., of Dayton, bid $22,146, and Ulrich & Williams were highest at $33,222.

JACKSON, MICH.—R. M. Newman, Cy. Engr., writes us that this city will construct about 1,500 ft. of 60-in. brick and 6,500 ft. of 10 to 12-in. pipe sewers, average cut 9 ft., to cost about $12,000.

TEKONSHA, MICH.—At the spring elections the people will vote on the question of issuing $3,000 in bonds for sewers.

GLENCOE, ILL.—Bids are asked until March 16 for constructing a system, requiring about 3,200 ft. of 12-in., 1,850 ft. of 10-in., 720 ft. of 9-in., 9,550 ft. of 8-in. and 3,400 ft. of 6-in. pipe sewers, 75 manholes, etc., as stated in our advertising columns. M. T. Culver, Pres. Local Bd.; G. D. Hall, Village Clk.; Frank A. Windes, Engr., Winnetka.

NEENAH, WIS.—L. C. Hjorth, Cy. Engr., writes us that the City Clerk, Geo. Le Tourneux, will shortly advertise for bids for the construction of about 2 miles of vitrified pipe sewers in the First Sewer District, and about ¼-mile in the Second Sewer District. Plans and specifications are now on file in the office of the city clerk.

WAUWATOSA, WIS.—It is stated that this city will soon purchase a site for its proposed sewage reduction plant.

DES MOINES, IA.—Bids are asked by the board of public works until March 21 for constructing a sewer in Walker St.

MINNEAPOLIS, MINN.—Bids are asked until March 29 for furnishing sewer brick, pipe, Portland and natural cement, special castings, etc., for 1901. L. A. Lydiard, Cy. Clk.; G. W. Sublette, Cy. Engr.——The council has ordered about 5.1 miles of sewers to be constructed this year, mostly 12 to 24-in. pipe.

ST. LOUIS, MO.—Bids are asked until March 29 for constructing about 5,300 ft. of brick and pipe sewers in the Rocky Branch Sewer District. R. E. McMath, Pres. Bd.

HELENA, ARK.—Bids are asked until April 2 for constructing about 12½ miles of sewers. D. T. Hargraves, Secy.

LITTLE ROCK, ARK.—We are informed that this city will construct about 35,000 ft. of 6 to 12-in. pipe sewers, average cut 8 ft. James F. Kieser, Engr.

FORT WORTH, TEX.—John B. Hawley, Cy. Engr., writes us that this city will construct 6,000 ft. of 6 and 8-in. pipe sewers, to cost about $2,500.

OKLAHOMA CITY, OKLA. TER.—Bids are asked by the city clerk until March 18 for constructing sewers. Specifications on file at the office of Engineering News, 220 Broadway, New York. G. W. Spencer, Cy. Clk.

CHICO, CAL.—Richard White, Cy. Clk., writes us that a special election will probably be held in April to vote on the question of issuing $45,000 in bonds for constructing a system.

PASADENA, CAL.—The contract for constructing about 4,233 ft. of 8-in. pipe sewer has been let to Charles Musbrush at $2,729.——Proceedings have just been started for constructing about 10,000 ft. of 8-in. sewer. W. B. Clapp, Cy. Engr.

SACRAMENTO, CAL.—The Mayor has appointed a special sewerage committtee to look into the matter of a new system. H. Weinstock, Ch. Com.; M. J. Desmond, Cy. Clk.

NORTH SYDNEY, N. S.—Press reports state that the council will borrow $100,000 for constructing sewers.

CAMPBELLTON, N. B.—On March 15 a special election will be held to vote on the question of constructing a system.

GARBAGE DISPOSAL—STREET CLEANING

ALBANY, N. Y.—Bids are asked until March 18 for refilling of brooms for street sweeping machines, etc. I. Wachman, Clk. Bd. Contract.

PLAINFIELD, N. J.—The Plainfield Garbage Crematory Co., which owns a plant that has not been operated in two years, is reported as again making efforts to induce the council to purchase it at a cost of about $20,000.

ROME, GA.—Bids are asked by J. R. Cantrell, Chn. St. Com., for cleaning the streets for the year beginning April 1.

PEORIA, ILL.—Geo. Alfs is reported as considering the question of building a crematory to cost $12,000.

ST. JOSEPH, MO.—The question of introducing new methods for cleaning the streets is being considered. Address Mayor Combe.

STREETS AND ROADS.

SKOWHEGAN, ME.—The council has appropriated $1,000 for macadamizing West Front St., $5,000 for general highways and $1,200 for sewers. Levi Emery, Chn.

YARMOUTH, ME.—The council has appropriated $4,200 for building an extension of the macadam road between Yarmouth and South Yarmouth. Wm. J. Davis, Town Clk.

NASHUA, N. H.—The council is said to be considering the question of building a road from Tyngsboro to Manchester, to cost about $50,000.

ANDOVER, MASS.—The council is said to be considering yearly appropriations: Highways, $3,000; macadam roads, $3,000; new steam road roller, $3,250.

HOLYOKE, MASS.—Bids are asked by the board of public works, until March 15 for about 5,000 ft. of curbing. Michael F. Walsh, Chn. Bd.; Oscar C. Ferry, Asst. Clk.

MALDEN, MASS.—Reports state that the council is considering the question of widening Salem St., to cost about $50,000.

NORTH AMHERST, MASS.—The following appropriations have been made by the council: $4,000 for highways and $2,000 for macadamizing Main St.

NORTH ANDOVER, MASS.—The council has appropriated $2,500 for highway improvements and $3,500 for macadam pavements.

ATLANTIC CITY, N. J.—The following bids were received March 6 by J. J. Albertson, County Engrs., for constructing a gravel road from Mays Landing to Pleasantville, as advertised in Engineering News: W. J. Tomlin, Cape May, $16,675; J. S. Fisher, Clayton, $14,462; B. F. Sweeton & Son, Camden, $14,603; John Quinlan, South Amboy, $14,200; Eidert & Johnknecht, Jamaica, N. Y., $19,254; Risley & Camp, Pleasantville, $14,162 (accepted); John Hanselmann, Egg Harbor City, $15,979.

HARRISON, N. J.—The contract for asphalting Lodi St., is said to have been let to the Barber Asphalt Paving Co., 11 Broadway, New York, at $2,579.

ERIE, PA.—Press reports state that the Erie Electric Motor Co., will spend about $20,000 in street paving this year.

MEADVILLE, PA.—Bids are asked until March 20 for paving Liberty St., with brick, requiring about 4,000 ft. of curb and 6,230 sq. yds. of paving; also about 2,400 ft. of 6 to 20-in. storm sewer, as stated in our advertising columns. A. C. Pardee, Cy. Clk.; W. A. Doane, Cy. Engr.

PHILADELPHIA, PA.—The council has decided to spend about $750,000 in street improvements this year.

TITUSVILLE, PA.—Joseph Smith, Cy. Engr., writes us that the following bids were received Feb. 19 for paving West Spring St., with brick, requiring about 4,800 cu. yds. of earth excavation, 2,177 cu. yds. of gravel foundation, 11,296 sq. yds. of paving and 6,620 lin. ft. of curbing: (1) being for Franklin brick, (2) for Brady Run brick, (3) Jamestown wire-cut, (4) Jamestown block, (5) Mack Mfg. Co., wire-cut, (6) Mack re-paver, (7) Mack block, (8) Toronto, (9) curbing per lin. ft.: John Osborn, Franklin, (1) $12,767, (9) $25.16; Emory A. Edwards, (1) $13,202, (2) $13,428, (3) $13,202, (4) $13,541, (9) $23.17; J. A. Fredericks, Franklin, (1) $13,448, (2) $13,844, (3) $13,787, (5) $13,900, (9) $25.16; S. A. Schwartz, (1) $14,577, (2) $14,690, (3) $14,577, (4) $15,029, (5) $14,577, (6) $16,046, (7) $15,255, (9) $23.83; W. H. McDonald, (1) $13,532, (2) $13,758, (3) $13,532, (4) $13,871, (5) $13,871, (7) $14,322, (9) $23.17; Frederick Robinson & Co., Meadville, (1) $14,121, (2) $14,460, (3) $14,347, (5) $14,065, (9) $25.17; Thomas McGuigan, Meadville, (1) $15,204, (2) $15,430, (3) $14,978, (4) $16,334, (5) $15,317, (8) $15,882, (9) $25.82.

WASHINGTON, D. C.—Congress has made the following appropriations: $140,000 for laying sidewalks and paving alleys; $200,000 for repairs to pavements; $80,000 for repairs to county roads; $223,000 for paving streets and $83,800 for constructing county roads.

ATLANTA, GA.—Bids are asked until March 18 for constructing about 18,750 sq. yds. of asphalt pavement on Capitol Ave. R. M. Clayton, Cy. Engr.

BIRMINGHAM, ALA.—The council has passed an ordinance providing for the paving of 11th, 15th and Park Aves. H. D. Wood, Cy. Clk.

CLEVELAND, O.—The council has passed ordinances providing for the paving and improving of West River and Gallup Sts., and Hodge, Marcy and Decker Aves.

SALEM, O.—Bids are asked until March 28 for the improvement of Vine St., Geo. Holmes, Cy. Clk.

TOLEDO, O.—W. F. Brown, Cy. Engr., informs us that petitions have been made for the improvement of some 20 or 25 additional streets, and that about 25 sewers will probably be constructed during the year. It is also probable that the balance of the work on the retaining wall, amounting to about 2,500 yds. of masonry, will be let in either June or July.

ANDERSON, IND.—The council is said to have authorized the building of about a mile and a half of brick streets. Contracts will be let about April 15.

JACKSON, MICH.—We are informed that this city will construct about 16,000 sq. yds. of macadam road by day labor, to cost about $10,000. R. M. Newman, Cy. Engr.

LAGRANGE, ILL.—Reports state that this city will construct about five miles of cement sidewalks this year, to cost about $60,000.

ST. PAUL, MINN.—Bids are asked by the board of public works, until March 21 for constructing about 15,578 sq. yds. of asphalt pavement and 6,800 ft. of curb on Rice St. William L. Ames, Pres. Bd.; C. H. Bronson, Clk.

LAWRENCE, KAN.—Bids are asked until March 18 for laying about 12,000 sq. yds. of brick pavement on a 6-in. concrete foundation on Henry St., as stated in our advertising columns. Samuel P. Moore, Cy. Clk.; Holland Wheeler, Cy. Engr.

ST. LOUIS, MO.—Bids are asked by the board of public improvements until March 26 for paving, grading and improving portions of 14 streets. Robert E. McMath, Pres. Bd.; Edward Flad, Secy. Pro Tem.

FORT WORTH, TEX.—John B. Hawley, Cy. Engr., writes us that the city will construct about 15,000 sq. yds. of brick pavement to cost about $27,000.

BRANTFORD, ONT.—We are informed that the Waterous Engine Works Co., submitted the lowest bid, Feb. 28, at $3,250, to H. F. Leonard, Cy. Clk., for furnishing a 15-ton steam road roller.

MANUFACTURING PLANTS

BANGOR, ME.—Arrangements are reported to have been completed for the erection of two pulp and paper mills on the west branch of the Penobscot River in the spring by men of this city. One plant will be established at Mattacenuk Falls on the west side of the river about five miles from Mattawamkeag. It will have a capacity of about 50 tons of newspaper a day. Chas. W. Muller and N. M. Jones, Bangor, are interested. The other plant will be built above Lincoln by the Katahdin Pulp & Paper Co., having a capacity of 30 tons daily. It is stated that work on these mills will be started as soon as the frost leaves the ground.

SPRINGFIELD, MASS.—The Cheney Bigelow Wire Works plant will be enlarged by a building two stories high, 148 × 144 ft.

BUFFALO, N. Y.—The machine shop of the International Traction Co., at Masten and Dexter Sts., was destroyed by fire on March 4; loss reported at $50,000.

JERSEY CITY, N. J.—Reports state that the Merchants' Refrigerating Co., capitalized at $1,000,000, will build a plant in this city, adjoining the Pennsylvania R. R. yards; estimated cost for buildings, $750,000.——Local papers state that the Mutual Chemical Co. plant at West Bergen, recently destroyed by fire, will be rebuilt. Plans are now being prepared.

PHILADELPHIA, PA.—Plans have been filed by the Conkling-Armstrong Terra Cotta Co. for an addition to the kiln building at Wissahickon Ave. and Juniata St.; by Leas & McVitty for a five-story brick factory building at Orianna and Vine Sts.——It is said that the contract for building a large factory for C. T. Rumpp & Sons, has been let to A. Raymond Raff, builder, of this city.——Plans will be prepared by Hales & Ballinger, Archs., 12th and Chestnut Sts., for a building to be erected in this city for the manufacture of morocco. The factory will be three-stories, 200 × 300 ft. The same architects have been engaged to prepare plans for four buildings at 52d St. and Eastwith Ave. for the Tioga Steel & Forge Works, now at 17th and Clearfield Sts. The buildings are to be of steel construction, and comprise a forge shop, 80 × 200 ft.; a machine shop, 60 × 100 ft., and a boiler house, 40 × 50 ft. A brick office building will also be erected. Bids will be called for in about two weeks. The shop will be fitted with four large steam hammers, electric pneumatic traveling cranes, etc.

PITTSBURG, PA.—Rea & Co., packers, at 612 Second Ave., have incorporated under the name of the Rea Meat Co., with a capital stock of $1,000,000, and will build a new plant, for which plans are now being formulated. Wm. M. Rea, Pres.

LYNCHBURG, VA.—The Brookneal Mill & Power Co. has been chartered with a capital stock of about $100,000, to build a cotton mill in Campbell county, to cost about $500,000. The charter gives the company power to develop and utilize the water of the Staunton River. Dr. Walter L. Williams, James M. Lawson and James D. Bruce are interested.

CHARLESTON, S. C.—Plans have been filed for the buildings of the Royal Bag & Yarn Mfg. Co.'s plant, which will cover 10 acres. The main building will cost $60,000, and the additional buildings $10,000. Geo. Lunz, Secy. Work will begin at once.

ATHENS, GA.—A movement is on foot to establish a cotton mill here at an early date. The new mill will be capitalized at $300,000. The mill will be operated by the power generated at the Tallussee Shoals, about eight miles from here, where a large power plant is to be built. John R. White, A. H. Hodgson and Chas. H. Phinizy are interested.

ATLANTA, GA.—Local papers state that a large candy factory will be established here by Harry L. Schlesinger, of this city, for which the machinery alone will cost $40,000. A site for the new factory has been selected, and work is soon to be started.

SAVANNAH, GA.—The Virginia Carolina Chemical Works were destroyed by fire on March 2; loss reported at $115,000.

ANNISTON, ALA.—The Anniston Knitting Mills have been incorporated with $25,000 capital stock by E. L. Tyler, W. W. Stringfellow, T. C. Kelley and others. The buildings are now under construction and the equipments have been purchased.

BIRMINGHAM, ALA.—The Hardn-Tynes Foundry & Machine Co., whose plant was recently destroyed by fire, has purchased a site for a new plant.

ELBA, ALA.—Reports state that Savannah, Ga., capitalists propose to erect a $200,000 cotton factory at Elba. J. W. Comer is said to be behind the scheme.

PIEDMONT, ALA.—A proposition has been made to the citizens of this place for the erection of a canning factory, to cost about $20,000, providing the citizens take $5,000 of the stock.

SYLACAUGA, ALA.—Dr. J. E. Pearson has purchased a site for a cotton mill, to cost about $100,000.

CHATTANOOGA, TENN.—The Rosenau Hosiery Mills have been incorporated with $50,000 capital stock. It is expected to have the plant in operation within six weeks. D. L. Rosenau, Pres. Tuscaloosa.

LOUISVILLE, KY.—Plans are reported prepared by D. X. Murphy & Bros. for the tobacco factory to be erected by the Doerhoeffers, at 30th and Madison Sts., at a cost of $100,000.

TOLEDO, O.—Press reports state that the contract for the factory of the Lansing Beet Sugar Co. has been let to Clark & Spear, who have sublet the masonry work to F. H. Hill. The plant will comprise five buildings, and will cost about $1,000,000. The main building will be 250 × 67 ft.

CLEVELAND, O.—Dr. C. B. Forward, Gen. Mgr. Forward Reduction Co., will soon begin the erection of a large oil refinery in the Beaumont district of Texas, in which $500,000 will be invested.

YOUNGSTOWN, O.—The Youngstown Engineering Co., capital stock, $50,000, has selected a site for its plant in Hazelton, and will break ground within a few weeks for the erection of the buildings. The plant will consist of a foundry, 80 × 100 ft., and also a machine shop, 80 × 160 ft., of steel construction. Henry Boyd, Youngstown, and Hugh Ferguson, Pittsburg, are interested.

HARTFORD CITY, IND.—The contract for the new window-glass factory of the Blackford Glass Co. has been let to J. H. Adamson, at $16,500.

DETROIT, MICH.—Plans are being prepared by Carl F. Pollmar, Arch., Cleveland Bldg., Detroit, for a new factory for the W. H. Anderson & Sons Tool Works, at St. Aubin Ave. and Guoin St. The main building will be 60 × 100 ft.——The Old Motor Works on Jefferson Ave. were destroyed by fire on March 9. Loss estimated at $100,000.

HOUGHTON, MICH.—The Champion Copper Co. has let a contract to the Wisconsin Bridge & Iron Works, Milwaukee, for a new four-stamp mill to be 176 × 215 ft. The cost of the new plant and equipment will be about $250,000.

CHICAGO, ILL.—Permits have been issued to Libby, McNeill & Libby, to build a $30,000 building at Parker Ave. and Exchange Place, which will be five stories high. It will be used as a packing tank and smokehouse.——The Crane Co. is said to be considering the proposition of extending its works. About $300,000 is to be expended.

MILWAUKEE, WIS.—The Rundle-Spence Mfg. Co. has filed plans for an addition to its plant on Second St., this city. The building will be 25 × 150 ft., and will cost $11,000.

CLINTON, IA.—It is stated that a special election will be held here on March 21, to vote on the proposed 25-year franchise for the Clinton Gas Light & Coke Co.

FARGO, N. D.—Reports state that the capitalists of this city, who recently visited the northwestern part of the state, have subscribed $250,000 towards the erection of a sugar beet factory.

GARLAND, TEX.—The citizens have subscribed $35,000 of the necessary $400,000 towards the building of a cotton mill in this place, on which it is expected to begin work at an early date. John T. Jones, L. A. Allen and T. S. Walker are interested.

NEW BOSTON, TEX.—The Bowie County Cotton Oil Co. has purchased a site for its proposed plant and will begin work at an early date. The capital stock of the company is $50,000. T. A. Fuller, Pres.

PARIS, TEX.—The citizens of this place are subscribing towards a pork packing plant, which promises to be built in the near future. The plant will be capitalized at $75,000.

TIOGA, TEX.—It is stated that a $15,000 flour mill will be built here.

SEATTLE, WASH.—Local men engaged in the salmon fishing and cold storage business have combined interests and will construct and operate a salmon cannery and fish-freezing plant at Taku Harbor, Alaska. The San Juan Fish & Packing Co. has been organized by James H. and William Calvert, of this city. The company will spend about $60,000 in the construction of a new cannery and refrigerating plant, which will be located near the mouth of the Taku River, about 25 miles from Juneau.

OTTAWA, ONT.—Bids are reported wanted by J. D. McFarlane, Bank St., Ottawa, for the erection of a factory for the galvanized iron works on Slater St.

MISCELLANEOUS CONTRACTS.

LOCK GATES.—Louisville, Ky.—Bids are asked until April 2 for furnishing steel lock gates, etc. Capt. William L. Siebert, U. S. Engr.

PROTECTED CRUISER.—Washington, D. C.—Bids are asked by the Navy Department until April 4 for constructing one protected cruiser. John D. Long, Secy. of Navy.

TELEPHONE SUPPLIES.—Carlisle, Ark.—E. A. Wilson, Secy. Independent Telephone Co., writes that he would like to receive catalogues and prices for material for a complete system.

SUPPLIES.—Pittsburg, Pa.—Bids are asked until March 20 for furnishing a quantity of cement, castings, brick and miscellaneous supplies for the board of public works. Geo. W. Wilson, Dir. Dept.

TELEPHONE LINE.—Heath, Mass.—Bids are asked by the Treasurer of the Heath Telephone Co. until April 1 for building about 12 miles of telephone line between Shelburne Falls and Conway.

PARK WORK.—New York, N. Y.—Bids are asked by the department of parks, Arsenal, Central Park, until March 21 for grading, erecting iron railings, fountains, paving, etc., in various parks in Manhattan.

EXTENSION OF WHARF.—Port Townsend, Wash.—Bids are asked until April 8 for extending the wharf at the quarantine station here. James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until March 16 for furnishing a quantity of lead, iron and steel and one hand-power traveling crane at the navy yard. A. S. Kenny, Paymaster Gen., U. S. N.

IRON WORK FOR DAM, ETC.—Little Rock, Ark.—Bids are asked until April 11 for furnishing iron work for lock and dam in Upper White River, as stated in our advertising columns. Capt. Robert McGregor, U. S. Engr.

MACHINERY.—Vallejo, Cal.—Bids are asked until March 26 for furnishing a quantity of machine tools, air compressors, boilers and pumps at the Mare Island Navy Yard. A. S. Kenny, Paymaster Gen., U. S. N., Washington, D. C.

DAM.—Cincinnati, O.—Bids are asked until April 10 for building 500 ft. length of Chanoine dam of navigable pass at Dam No. 2, Ohio River, as stated in our advertising columns. Maj. Wm. H. Bixby, U. S. Engr., Custom House; Wm. Martin, Res. Engr., Davis Island Dam, Bellevue, Pa.

QUAY WALL.—Portsmouth, N. H.—The following bids were received March 9 by M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C., for constructing 200 ft. of concrete quay wall at the navy yard: John Pierce, 277 Broadway, New York, complete $36,936, per lin. ft. for increase or decrease, $165; Frank Pidgeon, 315 Madison Ave., New York, complete $37,698, per lin. ft. $188.49; Penn Bridge Co., Beaver Falls, Pa., complete $35,743, per lin. ft. $168.

DREDGE AND SNAG BOAT.—St. Augustine, Fla.—We are informed that Capt. C. H. McKinstry, U. S. Engr., received the following bids March 7 for a steel dredge and snag boat, (1) being price for boat complete, (2) for boat without hydraulic machinery, (3) electric light plant, and (4) refrigerating plant: Merrill-Stevens Eng. Co., Jacksonville, (1) $70,400 at Jacksonville, (2) $64,700 at Jacksonville; Louis H. Skinner, Wilmington, N. C., (1) $70,000 at Jacksonville; Iowa Iron Works, Dubuque, Ia., (1) $63,400 at Jacksonville, $61,200 at Dubuque, (2) $56,645 at Jacksonville, $54,445 at Dubuque, (3) $1,150, (4) $2,550.

OBSERVATION TOWER.—Ft. Caswell, N. C.—We are informed that the following bids were received Feb. 28 by Capt. E. W. Van C. Lucas, U. S. Engr., Wilmington, N. C., for constructing an observation tower: Ellicott Machine Co., Baltimore, Md., $3,757; New Jersey Foundry & Machine Co., New York, N. Y., $3,800; Penn Bridge Co., Beaver Falls, Pa., $4,980 (telegram received asking that their bid be reduced by $250); Shreve & Co., Baltimore, Md., $4,740; American Bridge Co., Baltimore, Md., $4,600; North Penn Iron Co., Philadelphia, Pa., $3,480; Philadelphia Construction Co., Philadelphia, Pa., $8,400; Geo. H. Crafts, Atlanta, Ga., $4,374; West Side Foundry Co., Troy, N. Y., $3,750; Henry Monk, Pensacola, Fla., $8,750.

HYDRAULIC DREDGE.—Galveston, Tex.—We are informed that the following bids were received Feb. 28 by Capt. C. S. Riche, U. S. Engr., for building the hull and machinery of a self-propelling hydraulic dredge, as advertised in Engineering News, (1) being for hull, (2) centrifugal pump and engine, (3) boilers, (4) proposelling engines, etc., (5) suction head pipe, etc., (6) A frame, fittings, etc., (7) surface condensor, (8) electric light plant, (9) distilling plant, (10) refrigerating plant and (11) jet and feed pumps: New Jersey Foundry and Machine Co., New York, (2) $18,450, (3) $10,685, (4) $12,240, (7) $2,987, (8) $1,743, (9) $1,090, if Knowles pumps are substituted for those offered add $66 or $1,600, (10) $1,550, (11) 1,534, if Worthington pumps are subtsituted for those offered add $125 or $1,659; Memphis Machine Works, Memphis, Tenn., (10) $1,295; Barden Electric & Machinery Co., Houston, Tex., (8) $1,350, if form 3c, Carlisle & Finch searchlight is accepted instead of form 3m deduct $100; Wheeler Condenser & Engineering Co., New York, N. Y., (7) $2,498; Lewis Johnson, New Orleans, La., (4) $8,750; Morris Machine Works, (2) $8,338, (4) $5,025; M. T. Davidson, Brooklyn, N. Y., (7) $2,810, (9) $1,420; Joseph Edwards & Co., (2) $10,950; Alex. W. R. Maas, New Orleans, La., (1) $15,800; R. G. Packard & Co., New York, N. Y., (2) $14,750; M. F. White, Mobile, Ala., (8) $2,250; Moore & Lieber, (1) $10,930; Camden Iron Works, Camden, N. J., (2) $10,518, (7) $3,646; Thomas P. Benton & Son, La Crosse, Wis., (8) $900, if a Sturtevant engine is substituted for the one offered add $150. If a Buffalo Forge Co. engine is used add $175; General Electric Co., Schenectady, N. Y., (8) $1,520, if a 15-K-W. generating set is desired instead of the 10-K-W. set offered the bid will be $1,755.——Bids for the suction head pipe and A frame, fittings, etc., will be readvertised. Three bids are being solicited in the open market.

HARBOR AND RIVER WORK.—Washington, D. C.—The following appropriations were made by the last Congress for construction of works on harbors and rivers, under contract or otherwise: For works authorized by the River and Harbor Act of 1896: Locks and dams in Allegheny River, Pa., continuing construction of lock and dams at Hen Island, above the head of 6-Mile Island and att Springdale, $126,000; improving Bayou Plaquemine, La., completing improvement, $210,000; improving harbor at Buffalo, N. Y., continuing improvement, $400,000; improving Cumberland Sound, Ga. and Fla., continuing improvement, $200,000; harbor of refuge, Delaware Bay, Del., continuing construction, $213,000; improving harbor at Duluth, Minn., and Superior, Wis., continuing improvement, $320,000; improving Grays Harbor, Wash., continuing improvement of harbor and bar entrance, $138,225; Illinois and Mississippi Canal, continuing construction, $975,000; improving Kentucky River, Kentucky, continuing improvement, $150,000; improving waterway from Keweenaw Bay to Lake Superior, Mich., continuing improvement of water communication across Keweenaw Point, $145,000; improving harbor at Portland, Me., continuing improvement, $21,000; improving Providence River and Narragansett Bay, R. I., continuing improvement, $59,000; improving harbor at San Pedro, Cal., continuing construction of breakwater, $146,000; improving Winyaw Bay, S. C., continuing improvement of Harbor at Winyaw Bay, $500,000; improving Yazoo River, Miss., completing improvement of mouth of Yazoo River and harbor of Vicksburg, $510,000. For works authorized by the River and Harbor Act of 1899: Improving harbor at Ashtabula, O., continuing improvement, $2,000; improving harbor at Boston, Mass., completing improvement under project for 30-ft. depth through Broad Sound Channel, $133,000; improving harbor at Bridgeport, Conn., continuing improvement, $50,000; improving channel in Gowanus Bay, N. Y., continuing improvement of Bay Ridge and Red Hook channels, $140,000; improving Black Warrior River, Ala., completing construction of lock and dam No. 4, above Tuscaloosa, $53,676; improving Big Sandy River, W. Va. and Ky., continuing improvement by the construction of two locks and dams between Louisa and mouth of the river, $140,000; improving Calumet Harbor, Ill., continuing improvement, $255,000; improving Congaree River, S. C., continuing improvement from Gervais St. bridge, Columbia, to Granby, $50,000; improving Delaware River, Pa. and N. J., continuing improvement, $61,500; improving Detroit River, Mich., continuing improvement, $325,000; improving harbor at Everett, Wash., continuing improvement, $90,000; improving Hudson River, N. Y., continuing improvement, $100,000; improving Mississippi River from the mouth of the Ohio to Minneapolis, Minn., continuing improvement between St. Paul and Minneapolis, $157,000; improving harbor at New York, N. Y., continuing improvement of Ambrose Channel (formerly known as East Channel) across Sandy Hook Bar, $130,000; improving harbor at New Haven, Conn., continuing improvements, $50,000; improving waterway from Norfolk, Va., to sounds of N. C., continuing improvement of Deep Creek, Va., Turners Cut, Croatan Sound, and Pasquotank River, N. C., $29,870; improving Ohio River below Pittsburg, Pa., continuing construction of Dams Nos. 13 and 18, $40,000; improving Ocmulgee River, Ga., continuing improvement, $40,000; improving Patapsco River, Md., continuing improvement of channel to Baltimore, $475,352; improving Potomac River, improvement below the city of Washington, $98,000; improving harbor at St. Joseph, Mich., completing improvement, $38,000; improving Savannah River, Ga., continuing improvement between Augusta and Savannah, $100,000; improving Tampa Bay, Fla., continuing improvement of channel from the Gulf of Mexico to Port Tampa, $127,000; improving harbor at Toledo, O., continuing improvement, $8,000; improving Warrior and Tombigbee rivers, Ala. and Miss., continuing improvement of Warrior River by the construction of the three locks and dams next below Tuscaloosa, $240,000. Total, $7,046,623.

U. S. TROPICAL POSSESSIONS & CUBA

PACKING PLANT.—Honolulu, H. I.—It is stated that Nelson Morris, of Chicago, Ill., is planning to build a packing house in Honolulu to cost about $2,000,000.

HARBOR WORK.—Manila, P. I.—It is stated that the Philippine Commission has decided to double the appropriation of $1,000,000 for the improvement of Manila Harbor, and it has passed a bill accepting the transfer of the Manila Public Library.

RAILWAYS, WATER-WORKS, ELECTRIC PLANTS, ETC.—Cuba.—The Cuba Improvement Co., 32 Broadway, New York, has been organized to develop about 30,000 acres of land near Cabonica Bay, between Nipe and Barracoa, at the eastern end of Cuba, on the north shore. About 26,000 acres will be used for fruit culture and 1,000 acres for building lots. The company proposes to establish a city, and will build electric railways and light plant, ice and sold storage plants, water-works, houses, etc. Capital stock, $500,000. R. Ross Appleton, Pres., 75 Franklin St., New York; Andrew Jacobs, Secy.; Herbert L. Bridgman and Geo. A. Price, Directors, all of Brooklyn, N. Y.

FOREIGN CONTRACTS AND EXPORT NEWS.

ARMOR PLATE WORKS.—Berlin, Germany.—It is stated that the government has been called upon by the budget committee of the Reichstag to build an armor plate works.

RAILWAY STATION.—Argentina.—The government has passed a bill authorizing the Buenos Aires & Rosario Ry. and the Central Argentine Ry. Co. to build a union passenger station and freight station at Retiro.

ELECTRIC CABLE WORKS.—Russia.—An owner of a machine manufacturing plant in a Russian city of 800,000 people proposes to extend the works for manufacturing cables, etc., and wants to secure more capital. Address B. M., 679, care Haasenstein Vogler, A. G., Berlin, W. S., Germany.

PORT WORKS.—Montevideo, Uruguay.—The Allard-Coiseau & Convreau Syndicate, probably of Paris, France, has been awarded the contract at $9,916,336 for constructing the port works at Montevideo. The plans and specifications, in French, for this work may be seen at the office of Engineering News, 220 Broadway, New York.

GRADING RAILWAY.—Mexico.—Bids are asked until March 20 by the Cananea Consolidated Copper Co., Naco, Ariz., for grading 40 miles of standard gage railway in Mexico, from Naco to the mines at Lacananea. Postponement from March 10. Address E. A. McFarland, Ch. Engr., Naco, Ariz.; W. A. Greene, Pres., 27 William St., New York.

UNDERGROUND RAILWAYS.—London, Eng.—Reports state that Albert L. Johnson, 354 West End Ave., New York, and Pres. Nassau Electric R. R. Co., of Brooklyn, N. Y., and a syndicate are arranging for the construction of two electric underground railways in London to cost about $22,500,000. One line is proposed from Baker St. to Paddington station, six miles, and the other from the Bank of England to Waterloo station. Ex-Representative Benj. T. Cable, of Rock Island, Ill., is now in London in the interest of the scheme.

GARBAGE DESTRUCTION.—Bordeaux, France.—U. S. Consul Albion W. Tourgee, of Bordeaux, desires information as to cost and results of treating garbage by heat; first, as to the cost, efficiency and general satisfactory character of such disposition, and, second, as to the machinery, etc., necessary for the installation of such a service. Manufacturers of machinery of this sort would do well to communicate with the consul at once. Information from city officials and owners of crematories and concessions in the United States is wanted.

RAILWAY.—Mexico.—Work has been begun on a railway to connect Cordova and Huatuso, Mex. Jules M. Limantour, Carlos Mariscal and Eng. Juan A. Navarro, of Cordoba and Mexico City, are interested.——Jos. H. Hampson, Pres. Mexico, Cuernavaca & Pacific R. R., Mexico City, who has just returned to Mexico from the U. S., announced that the line is to be immediately extended to the Pacific coast and that the route will be through the valley of the Balsas River. The road will pass through a rich mineral region, in the state of Guerrero, which is now wholly undeveloped.

ELECTRIC RAILWAY.—Barcelona, Spain.—U. S. Consul Lay, at Barcelona, reports that Messrs. Corady y Cia. have obtained from the municipality of Barcelona a concession to build an electric railway 4.9 miles in length around the mountain of Montjuich. He understands that the rails have been contracted for in Belgium. The line is not to be constructed on the trolley system; the cars are to be drawn by electric engines. The chief engineer is the Marquis Armand de Bourbon Neilson, and his address is care of Messrs. Corady y Cia., Boria, 1 plaza Angel, Barcelona. Engines, accumulators and cars are required.

WATER-WORKS AND ELECTRIC PLANTS.—Europe.—Bids are asked by the Mairie, Town Hall, Vichy, France, until April 1, for building a reservoir to cost $55,000.——We are informed that the council proposes to build works for Buchert, Roumania, the water supply to be secured from the Bragadir River.——The towns of Grenoble, (Isere), Availles, Limouzine, and Baive, in France, proposes to grant concessions for electric light plants, and Baive also for an electric tramway.——Bids were asked by the mayor, Hotel de Ville, Ricamarie (Loire), France, until March 31 for a barrage on the Ondenon River to cost $150,000.

SHIPS' FITTINGS.—Nantes, France.—U. S. Consul Brittain, of Nantes, reports that Edward Kerr, of 3 rue Gresset, Nantes, requests information regarding responsible firms in the U. S. engaged in the manufacture of ships' fittings, such as pumps, scuttles, engine-room steering telegraphs, steering apparatus, patent lavatories, water-closets, etc. There are extensive shipyards at Nantes and at St. Nazaire, west of this city, where quantities of these appliances are constantly being used. Mr. Kerr is anxious to be placed at once in communication with the most extensive manufacturers. He has previously purchased these goods in England, but wishes to examine American products, and if satisfactory will place orders in the U. S.

RAILWAY, ETC.—Portuguese West Africa.—The Royal Trans-African Ry. Co., 5 Throgmorton Ave., London, E. C., Eng., and Loanda, Angola, W. A., proposes to extend its railway about 200 kilometers. Lines are also proposed from Benguella to Catumbella and from Great Fish Bay.——The franchise of the Loanda Gas Co., Ltd., Loanda, has been forfeited. The plant is large enough to supply gas to a third of the town. It is suggested that a new company be organized to take over the property and extend the plant.——The Central government at Lisbon, Portugal, has offered a prize of $2,300 and two of $385 each for the best plans for a sewerage system for Loanda. The work will cost about $230,000. There is an upper and a lower town.

MINING, TIMBER, ETC.—Oaxaca, Mex.—Reports state that the Gracia group of mines, in the state of Oaxaca, has been sold to a firm of bankers of Detroit, Mich. The mines have been worked with crude and old-fashioned appliances for many years.——A syndicate composed of H. S. Smith, of San Francisco, Cal.; Robt. Fullerton, of Des Moines, Ia.; Fred M. Stephenson, of Chicago, and John McComb, of Mexico City, has been formed to develop 500,000 acres of timber land situated in the Sierra Madra, south of Casas Grandes, Chihuahua. It is said that the company will build saw mills, logging railway, lumber camps, etc., at a cost of about $1,000,000 gold.——U. S. Minister Dudley, at Lima, Peru, on Jan. 16, reports a company recently formed in Lima with a nominal capital of $243,500 to drain the inundated mines in the region of Cerro de Pasco.

RAILWAYS, MINING, ETC.—Nicaragua.—U. S. Consul Donaldson, at Managua, Nicaragua, Cen. Am., in report on the industrial conditions of Nicaragua, states that the Compania de Trasportes de Matagalpa, Ltd., has completed surveys for a railway from Momotombo to Matagalpa, 79 miles. The maximum grade will be about 10%, and it is likely that work will commence soon. There is also talk of building a railway from Matagalpa to navigable water on Lake Managua, 45 miles, and which would require only about 10 miles of grading. As water power is plentiful there is talk of operating such a road by electricity. The coffee growers are anxious to give a bonus to a company willing to build this road. An American company proposes to build a quartz mining plant near San Ramon, six miles from Matagalpa. There is considered a good market for building brick, materials, etc., in Matagalpa.

RAILWAYS, ETC.—Europe.—We are informed that the Mediterranean Ry. Co., Milan, Italy, will purchase part of its new rolling stock abroad; estimated cost, about $3,400,000.——Bids are asked by M. Virard, Engr., 18 rue Neuve, Chinchauvand, Limoges, France, until March 23, for work on the Bussiere-Galant Ry., to cost $140,000.——Bids are asked by the town council of Ploeshti, Roumania, until April 3 for the purchase of a 30-year electric tramway concession; bond, $10,000.——The Tramway Co., of Messina, Italy, is to convert its steam line into an electric road.——Giovanni Stuchy, of the Giudecca mills, Italy, has presented to the mayor of Venice three projects intended to join the Isle of Giudecca and Venice. Two of these projects have been conceived by Frote & Westerman, C. E., of Zurich, Switzerland, and would cost $50,000 and $130,000, respectively; the third project which was planned by Mr. Krukenker, of Hanover, would cost $150,000.——La Societa Veneta has applied to the Italian Government for a concession for a railway from Portomaggiore to Migliavindo.——The municipality of Vienna, Austria, has approved of the formation of Neue Wiener Strassenbahn Gesellschaft, which has placed a contract with the Rietschl & Co., for the construction inside two years of an electric line from the Reichsbrucke to Kragram. The company intends to construct several other lines for which the contracts are still unplaced. The overhead system will be principally used.

INDUSTRIAL PLANT CONSOLIDATIONS.—Mexico.—Reports from Monterey state as a result of the recent visit of Enrique Creel, the banker, of Chihuahua, to New York, steps have been taken looking to the pooling of a number of Mexico's large industrial concerns. An agent of Chas. R. Flint, 30 Broad St., New York, who is to undertake this deal, is in Monterey, Mex. The most important of the proposed consolidations is that of the brewery interests. It is proposed to form a combine which will embrace all the breweries of Mexico, the most important of which are situated at Monterey, Toluca, Guadalajara, Mexico and Hermosillo. The proposed capital stock of this company is $10,000,000 gold. It is also proposed to consolidate the principal cotton mills into one corporation, there being about 400 cotton mills of laige capacity in Mexico. It is also contemplated to combine the principal cigarette factories and soap factories into two large corporations. Mr. Flint will have unlimited American and Mexican capital at his command in forming these combinations. Mr. Creel also proposed to combine the iron manufacturing concerns into one corporation, but the refusal of the syndicate which is erecting the $10,000,000 steel plant at Monterey to join in the combination caused the abandonment of this project. It is said that the recent success of the American Smelting & Refining Co. in acquiring all the smelter and large mining interests of Mexico induced Mr. Creel to undertake the deals proposed.

RAILWAYS.—Mexico.—Reports state that the final survey of the route of the Mazatlan extension of the Mexican International R. R., from Durango has been completed and is in the hands of the federal government for the approval. The road will be about 300 miles long and will cross the Sierra Madres at an altitude of over 12,000 ft. Great engineering skill will be required in the building of the road through the mountains. C. Knap, Secy., 23 Broad St., New York, N. Y.; L. M. Johnson, Gen. Mgr., Ciudad Porfirio Diaz, Mex.——Senor Creel, the Chihuahua banker, has returned home, after having arranged a connection between the National Park Bank, of New York, and the Banco Central Mexicana, which has a capital of $5,000,000. He has also arranged, through the banking house of H. B. Hollins & Co., for the consolidation of two mortgage banks in the City of Mexico. Another result of his visit to New York has been the raising of two-thirds of the capital required for the Chihuahua & Pacific R. R. Co.——President Diaz has made a contract with the London firm of Pearson & Son, which, it is hoped, will make efficient the railway across the Isthmus of Tehuantepec, between Coatzacoalcos, on the Gulf of Mexico, and Saline Cruz, on the Pacific. The lack of harbor facilities at either terminal has rendered it practically useless as a world's highway. Pearson & Son are to receive $5,000,000, to be paid in 40 monthly installments, for improving the harbor at the eastern end of the road, so as to make it available for commerce at all times, and also to provide an artificial harbor on the Pacific end. The railway itself is to be put in good condition.

CONTRACT PRICES.

WATER AND PIPE CASTINGS.—Los Angeles, Cal.—Wm. Mulholland, Supt. Los Angeles City Water Co., writes us that the following bids were received Feb. 25, 1901, for furnishing (1) 1,776 short tons of cast iron water pipe and (2) 25 short tons of castings: Martin Pipe & Foundry Co., San Francisco, (1) $29.50 a ton, (2) $53 a ton (accepted); Crane Mfg. Co., St. Louis, Mo., (1) $29.75, (2) $51; R. D. Wood & Co., Philadelphia (Chris. Frolich, Agent, San Francisco), (1) $30.24, (2) $55; Union Hardware & Metal Co., Los Angeles, (1) $31.60, (2) $56.10; J. Hellman & Co., Los Angeles, (1) $31.75, (2) $56; R. Heiman & Co., Los Angeles, (1) $30.99, (2) $53.99; Colorado Fuel & Iron Co., Denver (Lee Chamberlain & Co., Agents), (1) $30, (2) $55.

PAVING.—Garrett, Ind.—J. J. Van Auken, Engr., Auburn, Ind., writes us that the following bids were received March 5 for brick paving in Randolph St.; there were 16 brands of brick bid upon, with gravel foundation and sand filler; engineers estimate, $36,119; Kelly Bros. bid 60 cts. a lin. ft. for 10,150 ft. of combined cement curb, 6x24 ins. and gutter, 2-ft. wide, and 40 cts. for cement curb 6x24 ins.; Kemp & Sons bid 55 and 40 cts.; Rodette & Tansy, 60 and 50 cts., and C. M. Kirkpatrick, 40 cts. for the cement curb:

Bids Received at Garrett, Ind., Mar. 5, 1901, for Laying Brick Paving in Randolph St.

Bidder.	Excavation, 11,000 yds.	4 x 20-in. curb, Str'ght 9,200 ft.	4 x 20-in. curb, Circular, 950 ft.	3x15-in. Headers, 1,200 ft.	Paving on conc'te and stone fndation (27,000 yds. each, on Townsend block)	8-in. Broken stone and gravel	8-in. Cement and gravel	8-in. gravel	Filler: Cement, 1 to 2	Filler: Tar	Filler: Sand	Cement walk and curb, 6,175 ft.	Total.
Pettit & Abele, Zanesville, O.	$0.30	$0.38	$0.82	$0.25	$1.76	$1.67	$1.61	$1.285	$0.11	$0.13	$0.02	$0.255	$43,629
Hill, Kellner & Groscop, Garrett	.35	.31	.61	.20	1.54*	1.30*	1.38*	1.28*	.10	.12	.04	.17	44,613
Kerlin Bros & Co., Toledo, O.	.30	.42	.80	.21	1.88	1.67	....	1.38	.08	.15	.04	.18	46,248
Kelley Bros., Portsmouth, O.	.22	.35	.75	.14	1.34	1.17	1.24	1.08	.125	.12	.05	.13	35,013
Wayne Paving Co., Detroit, Mich.	.15	.35	.61	.18	1.585	1.475	1.355	1.215	.05	.15	.03	.11	38,670
T. M. Kemp & Sons, Middleton, O.	.17	.31	.65	.19	1.43	1.31	1.21	1.01	.08	.20	.02	.15	33,850
Bodette & Tansy, Toledo, O.	.18	.38	.74	.20	1.515	1.38	1.285	1.125	.08	.14	.02	.14	38,803
Thomas Burke, Chicago, Ill.	.20	.37	.63	.22	1.77	1.67	1.58	1.44	.10	.14	.03	.30	45,521
C. M. Kirkpatrick, Greenfield, Ind.	.25	.43	.86	.25	1.63	1.53	1.50	1.20	.10	.20	.05	.25	42,043
Frank Brumbaugh, Elkhart, Ind.	.35	.49	.83	.33	1.65*	1.49*	1.59*	1.29*	.11	.24	.09	.23	49,265
Roberts, Hoban & Roach, So. Bend	.27	.47	.63	.32	1.76	1.52	1.46	1.34	.28	.15	.10	.15	45,331
E. E. Moellering & Co., Ft. Wayne	.25	.37	.66	.35	1.57	1.47	1.40	1.20	.12	.13	.04	.18	40,049
Derheimer & Hill, Garret	.18	.35	.83	.24	1.71	1.61	1.44	1.34	.10	.12	.05	.22	40,985
W. W. Hatch & Son, Goshen, Ind.	.15	.34¼	.70	.22	1.545	1.36	1.33	1.135	.10	.14	.015	.12	35,187
Moore & Henley, Bloomington, Ind.	.47	.45	.74	.33	1.62	1.51	1.44	1.34	.16	.14	.03	.15	48,825

*On Metropolitan block.

VALVES, SLUICE GATES, ETC.—Cincinnati, O.—The commissioners of water-works received the following bids March 5, 1901, for furnishing water-valves, sluice gates, and mud valves for the settling reservoirs, and for the pump mains from the Eastern Pumping Station; the bids for these supplies, recently rejected, were published in our issue of Jan. 31:

Quantities.		Valve Companies: Ludlow.	Eddy.	Coffin.
Valves: 60″, hor., flanged*	1 each.	$1,853	$1,900	$1,850
Vertical, flanged.†	5 "	1,587	1,525	1,585
Horizontal, flanged.†	2 "	1,531	1,495	1,660
Double-bell.†	2 "	1,807	1,775	1,730
Double-bell*	1 "	1,833	1,825	1,800
Double-bell.†	3 "	1,579	1,475	1,625
Vertical, flanged.†	4 "	1,847	1,800	1,700
Double-bell*	1 "	1,843	1,800	1,750
30″, mud, base cstgs, etc.	2 "	1,130	1,100	1,165
8-in. bell-and-spigot.‡	5 "	18.50	20.00	20.00
Same with hand wheels.	2 "	16.20	19.50	23.00
8-in., flanged, iron bolts.	4 "	29.80	22.50	30.00
6-in., " "	4 "	17.65	14.50	16.00
6-in., " bronze blts	3 "	19.30	16.50	22.00
6-in. dble-spigt & vlv bxs	4 "	15.25	15.00	17.00
4-in., flanged, iron bolts.	7 "	11.40	9.00	11.00
4-in. dbl-spigt & vlv bxs	31 "	9.60	10.50	10.00
72-in. sluice gates, with stnds	2 "	1,355	1,200	1,375
Total		$38,046	$36,700	$37,711

*With by-passes, etc. †Without by-passes, etc. ‡With valve boxes.

LOCKS AND DAMS.—Monongahela River, W. Va.—The following bids were received by Maj. Chas. F. Powell, U. S. Engr., Pittsburg, Pa., March 9, for completing two locks and dams and for building four others:

Bids Received at Pittsburg, Pa., March 9, 1901, for Locks and Dams Nos. 10 and 11, Monongahela River:

Bidder.	Grubbing and clearing.	Excavation: Earth, 8,476 cu. yds.	Hard-pan, 200 cu. yds.	Rock, 2,713 cu. yds.	Embankment, 4,000 cu. yds.	Concrete 21840 yds.	Stone in cribs, 1,048 yds.	Stone paving, 2,403 yds.	Timber: Gates, etc., 52,636 ft. B.M.	Cribs: "A," 103,129 ft. B.M.	Class "B," 38,631 ft. B.M.	Bolts: Drift, 6,917 lbs.	Screw 500 lbs.	Total.
I. V. Hoag, Jr., Allegheny	$10.00	$5.00	$5.00	$5.00	$0.50	$9.00	$1.50	$1.50	$100.00	$50.00	$75.00	$0.05	$0.05	$274,056
Butler-Ryan Co., St. Paul.	.....	2.35	2.35	2.35	2.35	7.25	1.00	1.00	90.00	38.00	38.00	.04	.05	208,120
Hoffman E. & C. Co., Phila.	100.00	.48	1.50	3.00	.30	7.73	2.75	3.55	100.00	37.50	50.00	.035	.05	205,095
Evansville Contract Co.*	10.00	.50	1.00	2.00	.40	8.00	2.00	2.00	100.00	40.00	50.00	.05	.06	204,504
T.A. Gillespie Co., Pittsburg	300.00	.40	1.25	1.50	.35	8.10	1.75	2.00	88.00	50.00	65.00	.035	.035	205,221
Sharpsburg Sand Co.*	100.00	1.00	2.00	5.00	2.00	9.00	2.50	3.00	150.00	70.00	70.00	.07	.07	254,944
F.R. Dravo & Co., Pittsburg	200.00	1.00	2.00	2.00	.50	8.05	3.00	3.00	100.00	45.00	40.00	.05	.05	214,198
Keeling & Ridge Co.*	200.00	1.00	1.50	3.00	1.00	9.50	2.50	3.00	75.00	65.00	75.00	.05	.07	252,011
Baker & Judson.†	200.00	.50	1.25	3.00	.30	7.25	2.00	2.50	80.00	30.00	60.00	.05	.05	190,203
J.H.McQuade & Co., Pittsbg	100.00	1.25	2.00	2.50	1.00	9.40	2.50	2.90	100.00	70.00	70.00	.07	.07	252,130

*Pittsburg. †Gloversville, N. Y.

The following are the bids for the other locks and dams where there are additional bidders from the above list, or where the above prices differ; (1) being for grubbing and clearing, (2) earth excavtion, (3) hard-pan, (4) rock, (5) embankment, (6) concrete, (7) stone ballast in cribs, (8) stone paving, (9) timber for gates, spars, quoins and sills, (10) timber for cribs, Class A, (11) same, Class B, (12) drift bolts, (13) screw bolts, (14) totals: For Locks and Dams, Nos. 12 and 13.—I. V. Hoag, Jr., Allegheny, (2, 3 and 4) $3.50, (14) $363,359; Butler-Ryan Co., (2, 3 4 and 5) $2.77, (14) $312,656; Chas. Cramer, Pittsburg, (1) $600, (2) 14,900 yds., $1; (3) 4,048 yds., $2.25; (4) 2,830 yds., $2.60; (5) 9,827 cu. yds., 75 cts.; (6) 31,278 yds., $9.90; (7) 1,829 yds., $2.60; (8) 5,575 yds., $2,75; (9) 105,-272 ft., B. M., $100; (10) 140,727 ft., $35; (11) 82,924 ft., $38; (12) 15,442 lbs., 5 cts; (13) 1,000 lbs., 5½ cts.; (14) $378,506; Sheridan-Kirk Contract Co., Nicholasville, Ky., (1) $300, (2, 3 and 4) $1.10, (5) 60 cts., (6) $8.35, (7) $1.50. (8) $2.66, (9) $125, (10) $40, (11) $50, (12 and 13) 4 cts., (14) $321,4888; T. A. Gilespie Co., (1) $500, (3) $1, (5) 30 cts., (7) $2, (8) $2.25, (11) $50, (12 and 13) 4 cts., (14) $304,359; Sharpsburg Sand Co., (6) $8, (14) $351,419; Keeling & Ridge, (1) $500, (4) $2.50, (6) $8.75, (14) $347,-458. Locks and Dams, 14 and 15: Butler-Ryan Co., (2, 3, 4 and 5) $2.56, (14) $310,560; I. V. Hoag, Jr., (1) $1, (14) $389,814; Richard H. Brodhead, Butler, Pa., (1) $300; (2) 11,861 yds., $1.05; (3) 1,316 yds., $1.50; (4) 1,552 yds., $3; (5) 9,730 yds., 30 cts.; (6) 30,532 yds., $8; (7) 1,882 yds., $1.75; (8) 6,000 yds., $2.50; (9) 105,272 ft., $60; (10) 142,-797 ft., $40; (11) 82,924 ft., $30; (12) 15,110 lbs., 4 cts.; (13) 1,000 lbs., 5 cts.; (14) $300,023; Chas. Cramer (14) $369,901; Gillespie Co., (1) $500, (2) 50 cts., (3) $100, (5) 30 cts., (6) $8.20, (7) $2, (8) $2.25, (11) $70, (14) $303,392; W. E. Howley, Pittsburg, (1) $500, (2) 60 cts., (3) 75 cts., (4) $2, (5) 50 cts., (6) $8.10, (7) $2, (8) $2, (9) $90, (10) $40. (11) $50, (12) 4 cts., (13) 5 cts., (14) $299,633; Keeling & Ridge, (1) $1,000, (6) $9, (14) $350,936; Baker & Judson, Gloversvile, IN. Y., (1) $500, (2) 50 cts., (3) $1.25, (4) $3, (5) 30 cts., (6) $8, (7) $2, (8) $2.50, (9) $80, (10) $30, (11) $60, (12) 5 cts., (13) 5 cts., (14) $297.157.

SEWERS.—Brooklyn, N. Y.—The following lowest bids were received by the department of sewers March 6, 1901, for constructing certain sewers. Carroll St., Norton and Gorman, 301 Douglass St.—15-in. pipe, $1.99; 12-in., 250 ft., $1.83; manholes, $34; basins, $135; lumber, $30; total, $777. Also Center St.—12-in., $2.40, manhole, $35; total, $544. Court St., Segrette & Mannino—36 and 30-in. brick, 1,245 ft., $3; 24-in. pipe, 260 ft., $3; 15-in., 300 ft., $1.15; 12-in., 330 ft., 70 cts.; manholes, 20, $25; basins, 20, $85; lumber, 31M, $25; piles, 100 ft., $1; total, $8,166. Also West 17th St.—Sewer, 12-in., $1.15; manholes, $25; lumber, $23; total, $1,339. J. Jennings—15-in pipe, $1.25; 12-in., $1.19; manholes, $35; lumber, $22; total, $1,180. Tiffany St., Bronx, Watson Vredenburg, Jr. & [illegible], 82 W. 103d St., N. Y.—30-in. brick sewer, 235 ft., [illegible]; 18-in. pipe sewer, 538 ft., $2.31; 15-in., 264 ft., $2.17; [illegible]-in., 534 ft., $1.68; spurs, 50 cts.; manholes, $45; receiving basins, $135; rock excavated and removed, $2; concrete in place, $5; rubble masonry in mortar, $4.50; stone for foundations in place, $1.75; timber furnished and laid, [illegible]; 6 to 18-in. drain pipe, $1; total, $5,568.

STONE SEA WALL.—Boston, Mass.—We are informed that the board of harbor and land commissioners received the following bids March 7, 1901, for constructing 1,350 ft. of stone sea wall on Commonwealth F[illegible], South Boston: Frank Pidgeon, 315 Madison Ave., [illegible] York, $69 per lin. ft. of wall; John Cashman, Quincy, Mass., $58.40; Hiram W. Phillips, Quincy, $66.67; New[illegible] Construction Co., 49 Westminster St., Providence, R. I., $112; Patrick McGovern, 57 Maywood St., Boston, $[illegible]; Wm. J. Lawler, 16 City Square, Charlestown, $56.49 (accepted); Thos. A. Rowe, 68 Devonshire St., Boston, $72; Miller & Ellis, 17 Milk St., Boston, $58.44; Geo. A. Cahill, Woolsey Block, Jamaica Plain, Mass., $70.86.

WATER METER.—Syracuse, N. Y.—The board of contract and supply received the following bids Feb. [illegible], 1901, for furnishing a 30-in. water meter, delivered f. o. b. cars, Syracuse. J. H. Moffitt, Supt. Bureau of Water: National Meter Co., $2,800; Hersey Mfg. Co., $2,250; Builders' Iron Foundry, $1,280. The meter is to be placed at Skaneateles Lake at the head of the conduit, which brings water to the city. The meter proposed has a weight of 18,000 lbs.

EXTENDING TIMBER WHARF.—Bremerton, Wash.—The following bids were received by M. T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, March 9, 1901, for constructing an extension about 50 by 320 ft. to a timber wharf at the Puget Sound Naval Station: Dundon Bridge & Construction Co., 223 Folson St., San Francisco, Cal.—Complete, $23,800; per pile, $30; lumber per 1,000 ft., B. M., $30; alternate bid for piles creosoted full length with 12 lbs. injection per cu. ft., $27,500. Puget Sound Bridge & Dredging Co., 510 Pioneer Bldg., Seattle, Wash.—Complete, $19,605; per pile, $23.75; per 1,000 ft., 25.80. Alternate bid for piling treated with 15-minute hot bath of "Carbolineum Avenarius."—Complete, $16,181; per pile, $18; per 1,000 ft., $25.80.

STAND-PIPE.—Wallington, N. J.—We are informed that the following bids were received March 11, 1901, for a steel stand-pipe, 22x60 ft., including foundation, etc., for the proposed new works, the bids for which were published in our issue of Feb. 21; Wise & Watson, Consult. Engrs., Passaic, N. J.:

Bidder.	Stand-pipe, complete.	Extra: Excavation, a yd.	Extra: Concrete, a yd.	Difference top finish.‡
Stone & Thurston, New York	$6,998	$0.50	$7.00	+ $50.00
J. H. Cutley, Jersey City	6,488	.50	7.50	— 17.50
R. D. Wood & Co., Phila.	6,250	.75	9.00	.....
Tippett & Wood, Phillipsburg	5,580	.25	6.00	.....
E. Keller & Co., Philadelphia	4,917	.45	5.95	— 65.00
R. P. Carter, 35 Dey St., N.Y.	4,465	.26	6.50	— 25.00
Walsh Steam Boiler Works.*	4,060	...	6.00	.....
Raymond & Campbell Co.†	3,345	...	....	.....

*W. J. Walsh Steam Boiler Works, Holyoke, Mass. (bid accepted). †Raymond & Campbell Mfg. Co., Middletown, Pa., only bid for stand-pipe exclusive of foundation. ‡For substituting cresting No. 110 of Belmont Iron Works, for style of top finish shown upon plans.

STREET DEPARTMENT SUPPLIES. — Minneapolis, Minn.—We are informed that the following bids were received by the council March 8, 1901, for street department supplies; G. W. Sublette, Cy. Engr.; E. B. Dutton, Asst. Cy. Engr.: Curbstone, 20,000 lin. ft., delivered, f. o. b. cars; (1) being for a stone 5x18 ins., (2) for 5x20 ins., (3) for 6x20 ins., (4) for radius stone: Mantourville Stone Co., Mantourville, (1, 2 and 3), 55 cts.; Arnold Granite Co., St. Cloud, Minn. (2 and 3, 62 cts., (4) 64½ cts.; Robert Graham, St. Cloud, (2) 68 cts.; Breganz Stone Co., Winona, Minn., (1) 40 cts., (2) 42 cts., (3) 45 cts.; T. R. Coughlan, Mankato, Minn., (1) 51 cts., (2) 52 cts.; Fred. Swanson, St. Cloud, (2) 55 cts., (4) 70 cts.; Minneapolis Sandstone Co., (1) 44 cts., (2) 46 cts., (3) 49 cts. Granite paving blocks, f. o. b. cars Minneapolis: Robt. Graham, $1.70 a sq. yd., finely dressed $2.03; Arnold Granite Co., $1.44½ and $1.69½. Sandstone-blocks (f. o. b. cars city): Minneapolis Sandstone Co. $1.43 a sq. yd. and $1.58 with tar or asphalt filler on concrete base. Asphalt blocks (f. o. b. cars, city): Lake Erie Asphalt Block Co., Pittsburg, Pa., 3-in. $1.92, 4-in. $2.11 a sq yd. Cedar block (f. o. b. cars, city): Minneapolis Cedar & Flooring Co., 5-in. 52 cts. a sq. yd. Asphalt: Barber Asphalt Paving Co., New York, material delivered in street $1.98 a sq. yd., delivered and laid on street $2.05. Brick, 40,000 sq. yds. (f. o. b. city): Flint Brick Co., Des Moines, Ia., 98 cts a sq. yd., specials $1.25 a sq. yd.; Purington Brick Co., Galesburg, Ill., 98 cts. and $1.23; Galesburg (Ill.) Paving Brick Co., 91 cts., and $1.20; Wooster Shale B. & C. Co., Wooster, O., $1.13 and $1.17. Crushed slate, 6,000 cu. yds.: M. Ring & Co., $3 a cu. yd., 55 cts. a sq. yd on street; A. F. Thompson $3.15 and 65 cts. Cement, (1) being for Portland in sacks, (2) in wood, (3) Natural in sacks, Austin brand, (4) Utica, (5) Louisville, (6) Milwaukee brand: J.C. Landers (1) $1.95, (3 and 4) 80 cts.; S. D. Morrison, (5) 98 cts.; Minomonee H. P. B. Co., (1) $1.89, (2) $2.19, (4) 79 cts., (5) 83 cts.; M. Christensen (1) $2.05, (5) 98 cts.; Superior Mfg. Co., (1) $2.10, (5) 98 cts.; W. W. Page (1) $1.99; Union Ry. & Storage Co., (1) $1.95, (6) 80 cts. with sacks charged 10 cts and credited same when returned. The bids on valves are as follows; (1) being for 75 6-in., (2) 25 8-in., (3) 4 12-in., (4) 3 16-in. geared, and (5) 1 24-in. geared and 4-in. by-pass:

	1.	2.	3.	4.	5.
Mich. B. & I. Works, Detroit	$8.00	$14.00	$29.00	$65.00	$170
Sweet & Doyle, Cohoes, N.Y.	10.00	17.00	30.50	.....	...
Kennedy Valve Co., N. Y.	10.50	16.00	30.75	68.00	169
Cayuta W. & F.Co., Sayre, Pa.	10.75	16.50	31.00	60.00	140
Eddy Valve Co., Waterford.	11.30	18.00	31.00	66.00	169
Gilmore-Rolins Co., City.	10.99	15.99	41.99	73.99	231

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